

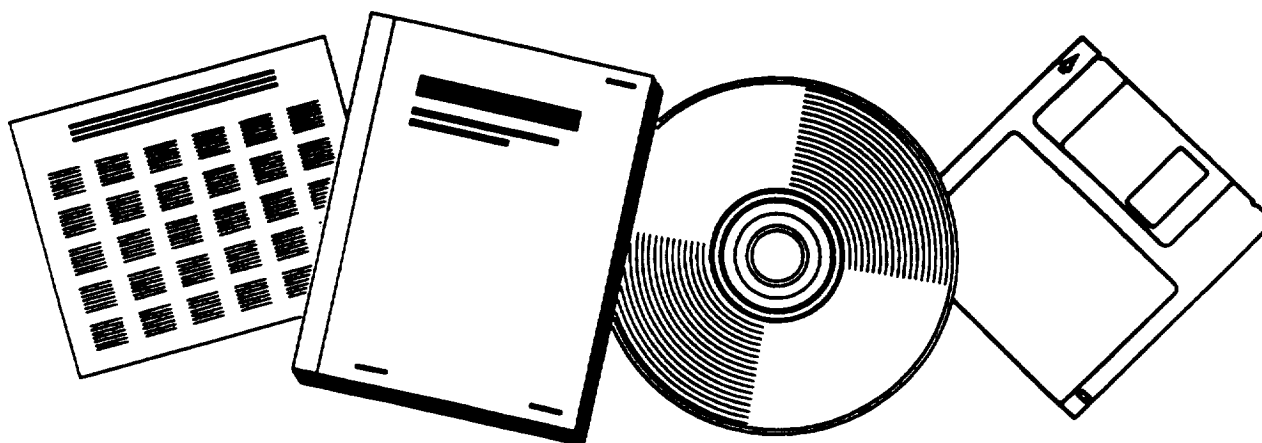


N71-38673

AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF A TBC SPACE SHUTTLE BOOSTER AND GAC ORBITER $M=0.6 - 4.96$

THE BOEING COMPANY
SEATTLE, WA

AUG 701



AUGUST 1971

N71-38673



—SPACE SHUTTLE—

AERODYNAMIC STABILITY AND CONTROL CHARACTERISTICS OF A TBC SPACE SHUTTLE BOOSTER AND GAC ORBITER $M=0.6 - 4.96$

by

J. Johnson, TBC

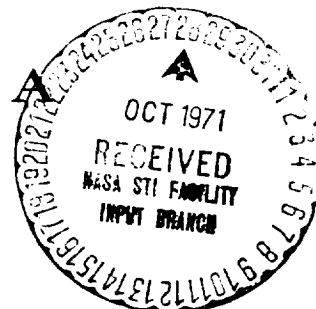
L. L. Watts, TBC

MSFC 14 - INCH

TRISONIC WIND TUNNEL

MARSHALL
SPACE FLIGHT CENTER

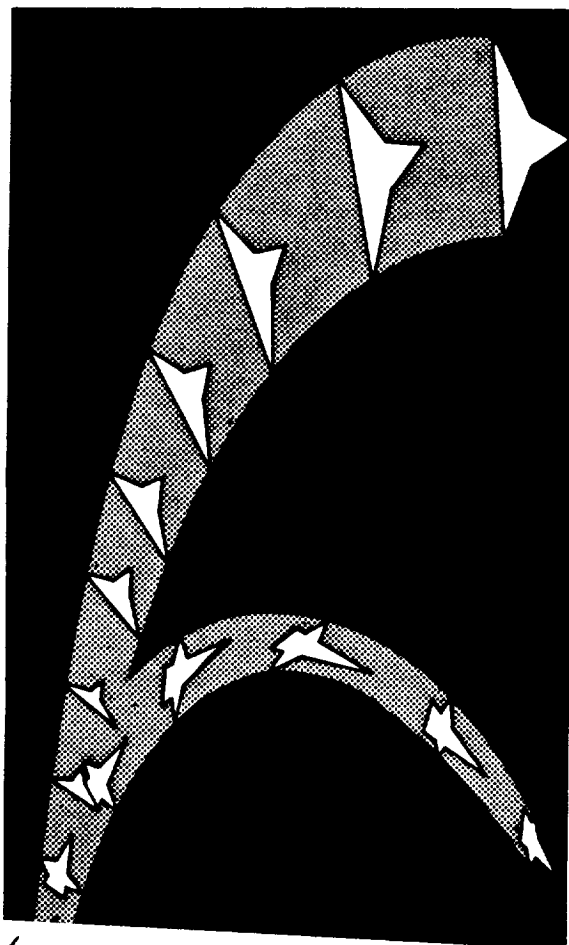
N A S A



SADSAC SPACE SHUTTLE
AEROTHERMODYNAMIC
DATA MANAGEMENT SYSTEM

CONTRACT NAS8-4016
MARSHALL SPACE FLIGHT CENTER

SPACE DIVISION  CHRYSLER
CORPORATION



FACILITY FORM 602

N71-38673
(ACCESSION NUMBER)
600
(PAGES)
CR-119983
(NASA CR OR TMX OR AD NUMBER)

(THRU)
G-3
(CODE)
31
(CATEGORY)

SADSAC/SPACE SHUTTLE
WIND TUNNEL TEST DATA REPORT

CONFIGURATION: Space Shuttle Booster, AR 1198 I-1 (.002456 Scale)
TEST PURPOSE: To Investigate the Aerodynamic Stability and Control
Characteristics of a Proposed Shuttle Booster Configuration.

TEST FACILITY: NASA - MSFC 14 x 14 Inch Transonic Wind Tunnel
TESTING AGENCY: The Boeing Company
TEST NO. & DATE: MSFC 492; May 12-25, 1971
FACILITY COORDINATOR: J. Weaver - MSFC
PROJECT ENGINEER(S): J. Johnson - Boeing
L. L. Watts - Boeing

DATA MANAGEMENT SERVICES

LIAISON:

John E. Vaughn

DATA OPERATIONS:

W. R. Morgan

RELEASE APPROVAL:

N. D. Kemp Supervisor
Aero Thermo Data Group

CONTRACT NAS8-4016

AMENDMENT 153

DRL 184 - 58

This report has been prepared by Chrysler Corporation Space Division under a Data Management Contract to the NASA. Chrysler assumes no responsibility for the data presented herein other than its display characteristics.

FACILITY COORDINATOR:

Mr. Jim Weaver
Marshall Spaceflight Center
Mail Stop S&E-AERO-AEE
Huntsville, Alabama 35801

Phone: (205) 453-2512

PROJECT ENGINEERS:

Mr. J. Johnson
ORGN. 2-5664
Mail Stop 86-22
The Boeing Company
P. O. Box 3999
Seattle, Washington 98124

Phone: (206) 773-2072

Mr. L. L. Watts
ORGN. 594-13
Mail Stop JC-35
The Boeing Company
Huntsville, Alabama 35807

Phone: (205) 895-2990

SADSAC LIAISON:

Mr. John E. Vaughn
Chrysler Corp. Space Division
Department 4830
102 Wynn Drive
Huntsville, Alabama 35805

Phone: (205) 895-1560

SADSAC OPERATIONS:

Mr. W. R. Morgan
Chrysler Corp. Space Division
Department 2780
P. O. Box 29200
New Orleans, Louisiana 70129

Phone: (504) 255-2304

ABSTRACT

Experimental aerodynamic tests were conducted during May, 1971 in the MSFC 14 x 14 Inch Trisonic Wind Tunnel on a 0.002456 scale model of a Boeing proposed space shuttle booster, configuration AR 1198 I-1, and on the booster with a Grumman G3-A orbiter mounted in a mid position on top of the booster. Test Mach number ranged from 0.6 to 4.96 with angle of attack varying from -20° to 20° at 0° sideslip and sideslip angle varying from -10° to 10° at 0° , 10° , 15° , 30° and 50° angle of attack. Reynolds number varied with Mach number from 5.6 to 11.5×10^6 per foot. Plotted data are presented in this report of the six static aerodynamic forces and moments in both the body and stability axis system.

THIS PAGE INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

	<u>PAGE NUMBER</u>
LIST OF FIGURES	2
LIST OF TABLES	3
SUMMARY	4
CONFIGURATIONS INVESTIGATED	5
DATASET COLLATIONS	6
TEST FACILITY DESCRIPTION	10
TEST CONDITIONS	11
DATA REDUCTION	13
SUMMARY DATA PLOT INDEX	16
FIGURES	19
MODEL COMPONENT DESCRIPTION SHEETS	32
STANDARD NOMENCLATURE	38
TABULATED DATA LISTING	43
PLOTTED DATA	44

LIST OF FIGURES

<u>FIGURE NUMBER</u>	<u>TITLE</u>	<u>PAGE NUMBER</u>
1.	Axis System	19
2.	AR 1198 I-1 0.002456 Scale Booster Model Tunnel Installation, Grit Size #36	20
3.	AR 1198 I-1 0.002456 Scale Booster Model Tunnel Installation, No Grit	21
4.	AR 1198 I-1 0.002456 Scale Booster/G3-A Orbiter Model, Grit Size #120	22
5.	0.002456 Scale AR 1198 I-1 Booster Model	23
6.	Grumman G3-A Orbiter Body	24
7.	Booster-Orbiter Configuration	25
8.	AR-1198 Body, B_2	26
9.	Wing, W_6	27
10.	Wing Tip Fins, V_2	28
11.	Vertical Tail, V_1 , Centerline	29
12.	Canard, C_1	30
13.	Trip Strip Chart	31

LIST OF TABLES

<u>TABLE NUMBER</u>	<u>TITLE</u>	<u>PAGE NUMBER</u>
I	Test Conditions	12
II	Grit Sizes Tested	14
III	SADSAC Nomenclature of Aerodynamic Coefficients	15
IV	Model Component: Orbiter - O1	32
V	Model Component: Body - B2	33
VI	Model Component: Wing - W6	34
VII	Model Component: Wing Tip Fins (V2)	35
VIII	Model Component: Vertical Stabilizer (V1)	36
IX	Model Component: Canard (C1)	37

SUMMARY

These tests were conducted at the MSFC 14-inch trisonic tunnel May 12 through May 25th. The configurations tested included a cylindrical booster body with an axisymmetric nose and clipped delta canards, a swept wing mounted at the aft end of the body with vertical fins mounted on the tips of the wings. A vertical fin mounted on the body centerline was also tested. The canards had variable incidence, $\pm 20^\circ$ and the wings had 30 percent chord elevons which could be set at 0° , $\pm 10^\circ$, and $\pm 30^\circ$.

The test consisted of the usual buildup of body, wings, canards, and vertical tail surfaces and some canard and elevon control effectiveness. In addition some configurations included a Grumman G3-A booster model mounted in a mid position on top of the booster. The model scale was 0.002456.

Test Mach number varied from 0.6 to 4.96 with Reynolds number ranging from 5.6 to 11.5×10^6 per foot. Longitudinal data were recorded over an angle of attack range from -20° to 20° at zero degrees sideslip while lateral-directional data were obtained over a sideslip range from -10° to 10° at 0° , 10° , 15° , 30° , and 50° angle of attack.

CONFIGURATIONS INVESTIGATED

Component Nomenclature

B_2	Cylindrical body with an axisymmetric nose $l/d = 8.0$ (Ref. 1 = 272 ft., $d = 34$ ft.)
W_6	3600 square-foot swept wing
C_1^2	900 square foot canard located on the body centerline
V_2	(2) 618 square-foot wing tip fins
O_1^1	Orbiter model mounted on the booster in the mid position

Pertinent dimensional data for each of the above components is given in the section entitled "Model Component Descriptor Sheets". The Data Set Collation Sheets which follow immediately relate the combinations of the component tested.

TEST TWT # 492 DATA SET COLLATION SHEET

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETER/VALUES				NO. of PINS	NACH REPEBS (CR ALTERNATE ENDPOINTS)									
		A	O	Se	Sc	SA	0.6	0.8	0.9	0.95	1.0	1.1	1.2	1.94	3.5	4.5
R3403A	B ₂ W ₆	A	0	0	-	0	9	006%	003%	004%	003%	002%	001%	20%	21%	21%
R3401A	B ₂	A	0	-	-	-	2								26%	25%
R3401H							1									25%
R3401G							2								26%	26%
R3401F							2								20%	20%
R3401I							1								20%	20%
R3402G	B ₂ C ₁ ²						5	027%		025%			022%	28%	25%	
R3402H							1	028%							25%	
R3402F							1									25%
R3402J							1									25%
R3402A							1									25%
R3404F	B ₂ W ₆ C ₁ ²						8	027%	019%	031%	032%	033%	034%	27%	27%	
R3404G							5	04%		038%			035%		24%	
R3404H							1	04%							20%	
R3404I							3								24%	
R3404J							1								24%	
R3405H	B ₂ W ₆ C ₁ ² V ₂						2	042%							23%	


COEFFICIENTS:
2 CR B
SCHEDULES

$$\alpha A = 0.2^{\circ} 4.6^{\circ} 8.8^{\circ} 10.1^{\circ} 12.1^{\circ} 14.1^{\circ} 16.1^{\circ} 18.20^{\circ}$$

$$\beta F = -10^{\circ} -8^{\circ} -6^{\circ} -4^{\circ} -2^{\circ} 0^{\circ} +2^{\circ} +4^{\circ} +6^{\circ} +8^{\circ} +10^{\circ}$$

IDPVAR(1) IDPVAR(2) IDPVAR(3)

DATA SCHEDULE

$\delta_e =$ 

TEST TWT # 492 DATA SET COLLATION SHEET

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCIN.		PARAMETER		NO. OF RUNS	NO. POINTS (ON ALIGNED INTERSECT)													
		A	B	SE	SC		0.6	0.8	0.9	0.95	1.0	1.1	1.2	1.95	3.5	4.95				
R3405G	B ₂ W ₆ C ² V ₂	410	F	0	0	8	0.6	0.8	0.9	0.95	1.0	1.1	1.2	1.95	3.5	4.95				
R3405F		0	F	1	0	3	0.6/0													
R3407H		0	F		-20	4	0.5/0													
R3407F		0	F		+20	4	0.6/0													
R3405A		A	0		0	10	0.79/0	0.78/0	0.77/0	0.76/0	0.75/0	0.74/0	0.73/0	0.72/0	0.71/0	0.70/0				
R3406A		A	0		+10	3														
R3407A		A	0		+20	7	0.93/0		0.91/0		0.89/0		0.87/0	0.85/0	0.83/0	0.81/0				
R3408A		A	0		-20	1	0.58/0						0.57/0	0.55/0	0.53/0	0.51/0				
R3410F	B ₂ V ₆ C ² V ₁	0	F		0	3	0.5/0							1.93/0	2.25/0					
R3410G		0	F			8	0.7/0	0.66/0	0.65/0	0.64/0	0.63/0		1.02/0	1.73/0	2.26/0					
R3410I		0	F			2								2.23/0	2.24/0					
R3410J		0	F			1								2.21/0	2.20/0					
R3410H		0	F			2	1.03/0								2.25/0					
R3411A	B ₂ V ₆ V ₂	A	0		-	10	1.09/0	1.10/0	1.11/0	1.12/0	1.13/0	1.14/0	1.15/0	1.90/0	2.19/0	2.20/0				
R3412A		A	0		0	5	1.22/0		1.20/0		1.18/0		1.16/0	2.58/0						
R3413A		A	0		0	1			1.25/0											
R3414A		A	0		-30	1	1.23/0													
R3415A	B ₂ V ₆ V ₂ O ₁	A	0		0	1	1.32/0													
R3415B		B	0		1	1	1.33/0													
R3415C		C	0		1	2							1.35/0	1.89/0						

COEFFICIENTS:
 a of b
 SCHEDULES
 $\alpha B = 0 - 2^\circ - 4^\circ - 6^\circ - 8^\circ - 10^\circ - 12^\circ - 14^\circ - 16^\circ - 18^\circ - 20^\circ$
 $\alpha C = -10^\circ - 8^\circ - 6^\circ - 4^\circ - 2^\circ - 0^\circ + 2^\circ + 4^\circ + 6^\circ + 8^\circ + 10^\circ$

$$\delta_a = \frac{\delta_{af}}{\delta_{ca}}$$

TEST TWT # 492 DATA SET COLLATION SHEET

☐ PRETEST
☒ POSTTEST

DATA SET IDENTIFIER	CONFIGURATION	SCHD.				PARAMETERS/VALUES	NO. OF RUNS	NACH NUMBERS (OR ALTERNATE INDEPENDENT TIME)									
		A	B	C	D			0.6	0.8	0.9	0.95	1.0	1.1	1.2	1.96	3.5	4.95
R34/6A	B ₂ H ₆ V ₂ O ₁ '	A	0	0	0	-	1	136%									
R34/6B		S	0				1	137%									
R34/6F		O	F				2	143%									
R34/5F		O	F			0	3	283%						144%			
R34/5D		O	D				1	147%						145%/137%			
R34/5E		O	E				1	145%									
R34/5H		H	5	F			1	156%									
R34/7C	B ₂ H ₆ V ₂ C ₁ O ₁ '	C	O			0	2	161%						164%			
R34/8F	B ₂ H ₆ V ₁ O ₁ '	O	F			-	1							184%			
R34/9F	B ₂ H ₆ O ₁ '	O	F			-	2	177%						178%/17%			
R34/4K	B ₂ H ₆ V ₂	K	O	-30		0	1									284%	
R34/4J		J	50	F	0	-	1									235%	∞

COEFFICIENTS: 1 7 13 19 25 31 37 43 49 55 61 67 73 79

CLM CN CYN CY CBL CL CAB CAF CPB1 CD 10

2 OF 8 SCHEDULES

AD = 0°-2°+4°+6°+8°+10°+12°+14°+16°+18°+20°

AE = 0°-2°-4°-6°-8°-10°-12°-14°-16°-18°-20°

AK = +40°+42°+44°+46°+48°+50°+52°+54°+56°

INTERVAL(1), INTERVAL(2) NEW

MACROSF00AF

TRIP STRIP STUDY

☒ POSTTEST

COEFFICIENTS:
a c r j
SCHEDULES

$$\alpha_c = -10^\circ, -8^\circ, -6^\circ, -4^\circ, -2^\circ, 0^\circ, +2^\circ, +4^\circ, +6^\circ, +8^\circ, +10^\circ$$

~~IFPVAR(1)~~:~~DEFVAR(2)~~:

TEST FACILITY DESCRIPTION

The Marshall Space Flight Center 14" x 14" Trisonic Wind Tunnel is an intermittent blowdown tunnel which operates by high pressure air flowing from storage to either vacuum or atmospheric conditions. A Mach number range from .2 to 5.85 is covered by utilizing two interchangeable test sections. The transonic section permits testing at Mach 0.20 through 2.50, and the supersonic section permits testing at Mach 2.74 through 5.85. Mach numbers between .2 and .9 are obtained by using a controllable diffuser. The range from .95 to 1.3 is achieved through the use of plenum suction and perforated walls. Mach numbers of 1.44, 1.93 and 2.50 are produced by interchangeable sets of fixed contour nozzle blocks. Above Mach 2.50 a set of fixed contour nozzle blocks are tilted and translated automatically to produce any desired Mach number in .25 increments.

Air is supplied to a 6000 cubic foot storage tank at approximately -40°F dew point and 500 psi. The compressor is a three-stage reciprocating unit driven by a 1500 hp motor.

The tunnel flow is established and controlled with a servo actuated gate valve. The controlled air flows through the valve diffuser into the stilling chamber and heat exchanger where the air temperature can be controlled from ambient to approximately 180°F . The air then passes through the test section which contains the nozzle blocks and test region.

Downstream of the test section is a hydraulically controlled pitch sector that provides a total angle of attack range of 20° ($\pm 10^{\circ}$). Sting offsets are available for obtaining various maximum angles of attack up to 25° .

TEST CONDITIONS

Table I presents the range of test variables at which data were recorded.

At the start of the test, data runs were made at $M = 1.96$ with various grit sizes on the body and surfaces (see Table II). From this series of tests the decision was made to use #120 grit (0.0049) on all transonic runs. The supersonic runs were made with #54 grit (0.0138"). The grit were located about 0.10 inches back from the leading edge of all surfaces and 0.06 to 0.08 inches wide. On the body, grit lines were located at 45° to the vertical at 90° increments and circumferentially at 0.1 and 1.5 inches from the nose. (See Figure 13.)

The model was sting mounted on an internal balance. The sting could be positioned to give fixed angles of α or β while the other angle was varied, or to extend the angle range in the pitch plane of the tunnel. Pitch runs were made with the model upright while sideslip runs were made in the tunnel pitch plane with the model and sting rolled 90° . Pitch data were taken through the normal sector angles of attack for $\beta = 0$, and through an extended range of angle of attack to $\pm 20^\circ$ utilizing the bent sting. Yaw data were obtained through the normal sector range ($\pm 10^\circ$) at fixed angles of attack of 0° , 10° , 15° , 30° and 50° .

Shadowgraph photographs were taken at zero degree angle of attack during the grit study runs (500-511). Schlieren photographs were taken for selected configurations at the zero, minimum and maximum angles of attack/yaw.

Base pressures were measured in two positions at the base of the model. No cavity pressure was measured.

TABLE I

TEST CONDITIONS
TEST TWT 422

MACH NUMBER	REYNOLDS NUMBER per unit length	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.60	$8.1 \times 10^6/\text{FT}$	6.2 ($P_{TA} = 35 \text{ PSI}$)	100° (NOMINAL)
0.60	$8.5 \times 10^6/\text{FT}$	7.3 ($P_{TA} = 37.5 \text{ PSI}$)	
0.80	$8.0 \times 10^6/\text{FT}$	9.0	
0.90	$7.8 \times 10^6/\text{FT}$	9.0	
0.95	$7.5 \times 10^6/\text{FT}$	8.9	
1.00	$7.2 \times 10^6/\text{FT}$	9.0	
1.10	$6.8 \times 10^6/\text{FT}$	9.0	
1.20	$6.6 \times 10^6/\text{FT}$	9.0	
1.96	$6.9 \times 10^6/\text{FT}$	10.0	
3.50	$11.5 \times 10^6/\text{FT}$	12.0	
4.96	$5.6 \times 10^6/\text{FT}$	3.0	

BALANCE UTILIZED: MSFC BALANCE #226

CAPACITY:

NF 150 lbs
 SF 50 lbs
 AF 30 lbs
 PM *
 YH *
 RT 40 ln.lbs.

ACCURACY:

COEFFICIENT
TOLERANCE:

COMMENTS:

*SEE BALANCE DESIGN GROUP

DATA REDUCTION

FOR SADSAC

Six component aerodynamic force and moment data were recorded using an internal strain gage balance. Base pressures (C_{P_b} #1 and C_{P_b} #2) were recorded and utilized to correct the axial force measured data (C_A) to a condition corresponding to free stream pressure acting at the base region.

$$C_A = C_{A_F} + C_{A_B}$$

$$C_{A_B} = \frac{(C_{P_b} \text{ #1} + C_{P_b} \text{ #2})}{2} \frac{A_b}{S}$$

The force, moment and pressure data were reduced to coefficient form using the following reference values.

$$S_{REF} = 4.6225 \text{ square inches}$$

$$l_{REF} = b_{REF} = 4.30 \text{ inches}$$

$$A_b = 0.7854 \text{ square inches}$$

Moment Reference Center: (see Figure 5)

$$X = +2.40 \text{ inches (ahead of booster base)}$$

$$Y = Z = 0$$

TABLE II. GRIT SIZES TESTED

<u>DATA SET I. D.</u>	<u>TRIP STRIP NO.</u>	<u>GRIT NO.</u>	<u>SIZE</u>
R34 05C	TS ₁	320	0.0020
R34 05S	TS ₂	240	0.0029
R34 05T	TS ₃	180	0.0035
R34 05U	None	-	-
R34 05V	TS ₄	150	0.0041
R34 05W	TS ₅	80	0.0083
R34 09C	TS ₅	80	0.0083
R34 09X	TS ₆	54	0.0138
R34 09Y	TS ₇	36	0.0232
R34 09Z	None	-	-

TABLE III. SADSAC NOMENCLATURE OF AERODYNAMIC COEFFICIENTS

COEFFICIENT	COEFFICIENT NAME	SADSAC NOMENCLATURE		
		BODY AXIS	STABILITY AXIS	WIND AXIS
C_A	Total Axial Force	C_A	-	-
C_{AB}	Base Axial Force	C_{AB}	--	-
C_{AF}	Forebody Axial Force	C_{AF}	-	-
C_D	Total Drag Force	-	C_D	C_{DTOTL}
C_{DB}	Base Drag Force	-	C_{DB}	C_{DBASE}
C_{DF}	Forebody Drag Force	-	C_{DF}	C_{DFORE}
C_L	Lift Force	-	C_L	C_L
C_N	Normal Force	C_N	-	-
C_Y	Side Force	C_Y	C_Y	C_C
C_l	Rolling Moment	C_{BL}	C_{SL}	C_{WL}
C_m	Pitching Moment	C_{LM}	C_{LM}	C_{PM}
C_n	Yawing Moment	C_{YN}	C_{LN}	C_{LN}
L/D	Lift-To-Drag Force Ratio	-	L/D	C_L/C_D
L/D	Lift-To-Forebody Drag Force Ratio	-	L/DF	C_L/C_{DF}
N/A	Normal-To-Axial Force Ratio	N/A	-	-
N/A	Normal-To-Forebody Axial Force Ratio	C_N/C_{AF}	-	-

SUMMARY DATA PLOT INDEX

TITLE	PIOTTED COEFFICIENTS SCHEDULE	CONFIGURATION/ CONDITIONS VARYING	PAGES
Longitudinal Stability Characteristics	A	B ₂	1-9
Longitudinal Stability Characteristics	A	B ₂ c ₁ ²	10-18
Longitudinal Stability Characteristics	A	B ₂ W ₆	19-36
Longitudinal Stability Characteristics	A	B ₂ W ₆ c ₁ ² V ₂	37-54
Longitudinal Stability Characteristics	A	B ₂ W ₆ V ₂	55-72
Longitudinal Stability Characteristics	A	B ₂ W ₆ V ₂ δ _e = -30	73-81
Longitudinal Stability Characteristics	A	B ₂ W ₆ V ₂ δ _e = -30	82-90
Longitudinal Stability Characteristics	A	B ₂ W ₆ V ₂ O ₁ ¹	91-99
Longitudinal Stability Characteristics	A	B ₂ W ₆ V ₂ c ₁ ² O ₁ ¹	100-108
Canard Effectiveness	A	Canard Deflection	109-171
Elevon Effectiveness	A	Elevon Deflection	172-216
Aileron Effectiveness	A	Aileron Deflection	217-225
Lateral-Directional Stability Characteristics	B	B ₂	226-249

SUMMARY DATA PLOT INDEX
(Continued)

TITLE	PLOTTED		CONFIGURATION/ CONDITIONS VARYING	PAGES
	COEFFICIENTS	SCHEDULE		
Lateral-Directional Stability Characteristics	B		$B_2 \quad C_1^2$	250-297
Lateral-Directional Stability Characteristics	B		$B_2 \quad W_6 \quad C_1^2$	298-369
Lateral-Directional Stability Characteristics	B		$B_2 \quad W_6 \quad C_1^2 \quad V_2$	370-441
Lateral-Directional Stability Characteristics	B		$B_2 \quad W_6 \quad C_1^2 \quad V_1$	442-513
Lateral-Directional Stability Characteristics	B		Vertical Tail	514-545
Lateral-Directional Stability Characteristics	B		$B_2 \quad W_6 \quad V_2 \quad O_1^1$	546-569
Lateral-Directional Stability Characteristics	B		$B_2 \quad W_6 \quad V_2$	570-577
Grit Study	C		$TS_1 \quad Tr1p$	578-579
Grit Study	C		$TS_2 \quad Tr1p$	580-581
Grit Study	C		$TS_3 \quad Tr1p$	582-583
Grit Study	C		No $Tr1p$	584-585
Grit Study	C		$TS_4 \quad Tr1p$	586-587
Grit Study	C		$TS_5 \quad Tr1p$	588-589
Grit Study	C		$TS_5 \quad Tr1p$	590-591

SUMMARY DATA PLOT INDEX
(Continued)

TITLE	PLOTTED		CONFIGURATION/ CONDITIONS VARYING	PAGES
	COEFFICIENTS	SCHEDULE		
Grit Study	C		TS ₆ Trip	592-593
Grit Study	C		TS ₇ Trip	594-595
Grit Study	C		No Trip	596-597

PLOTTED COEFFICIENTS SCHEDULE:

- (A) CN, CL, CIM, CA, CAF, CPB & DCIM/DCN vs. ALPHA
CL vs. CDF & CL vs. CIM
- (B) CY, CYN, CBL, CAF, CIM, CL, CDF & DCYN/DCY vs. BETA
- (C) CL vs. CDF & CL vs. CIM

Notes:
 1. Positive directions of force coefficients moment coefficients, and angles are indicated by arrows.

2. For clarity, origins of wind and stability axes have been displaced from the center of gravity.

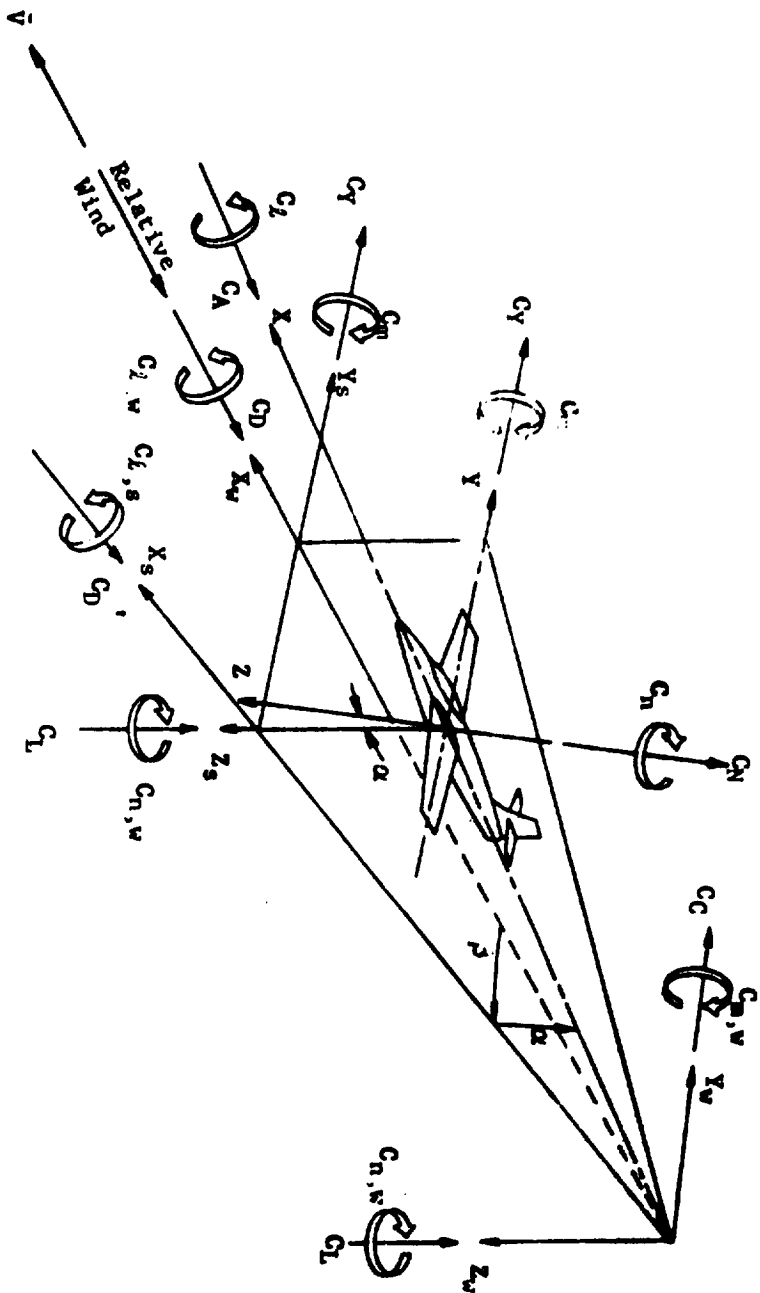


Figure 1. Axis systems, showing direction and sense of force and moment coefficients, angle of attack, and sideslip angle

AR11981-1 0.002456 SCALE
BOOSTER MODEL
TUNNEL INSTALLATION
GRIT SIZE #36

FIGURE 2.

MSCFC TWT 492
MAY 17 1971 36 GRIT
CONFIG
B W C V 0 1 2
2 6 1 2

NOT REPRODUCIBLE

MSFC TWT 492
MAY 17 1971
CONFIG
2 W C 1 V 2



FIGURE 3.

AR11981-1 0.002456 SCALE
BOOSTER MODEL
TUNNEL INSTALLATION
NO GRIT

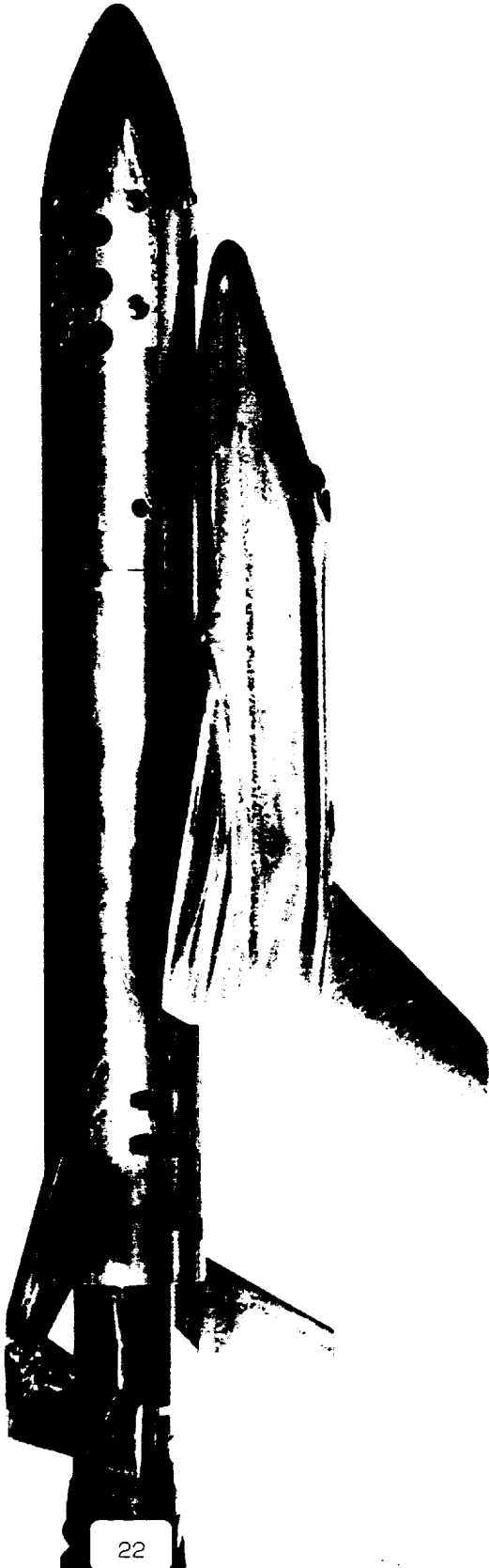


FIGURE 4.

ARI1981-1 0.002456 SCALE
BOOSTER/ORBITER MODEL
GRIT SIZE #120

MSFC TWT 492

MAY 24 1971

CONFIG

B 2 W 0 1 V 2
0 1 2

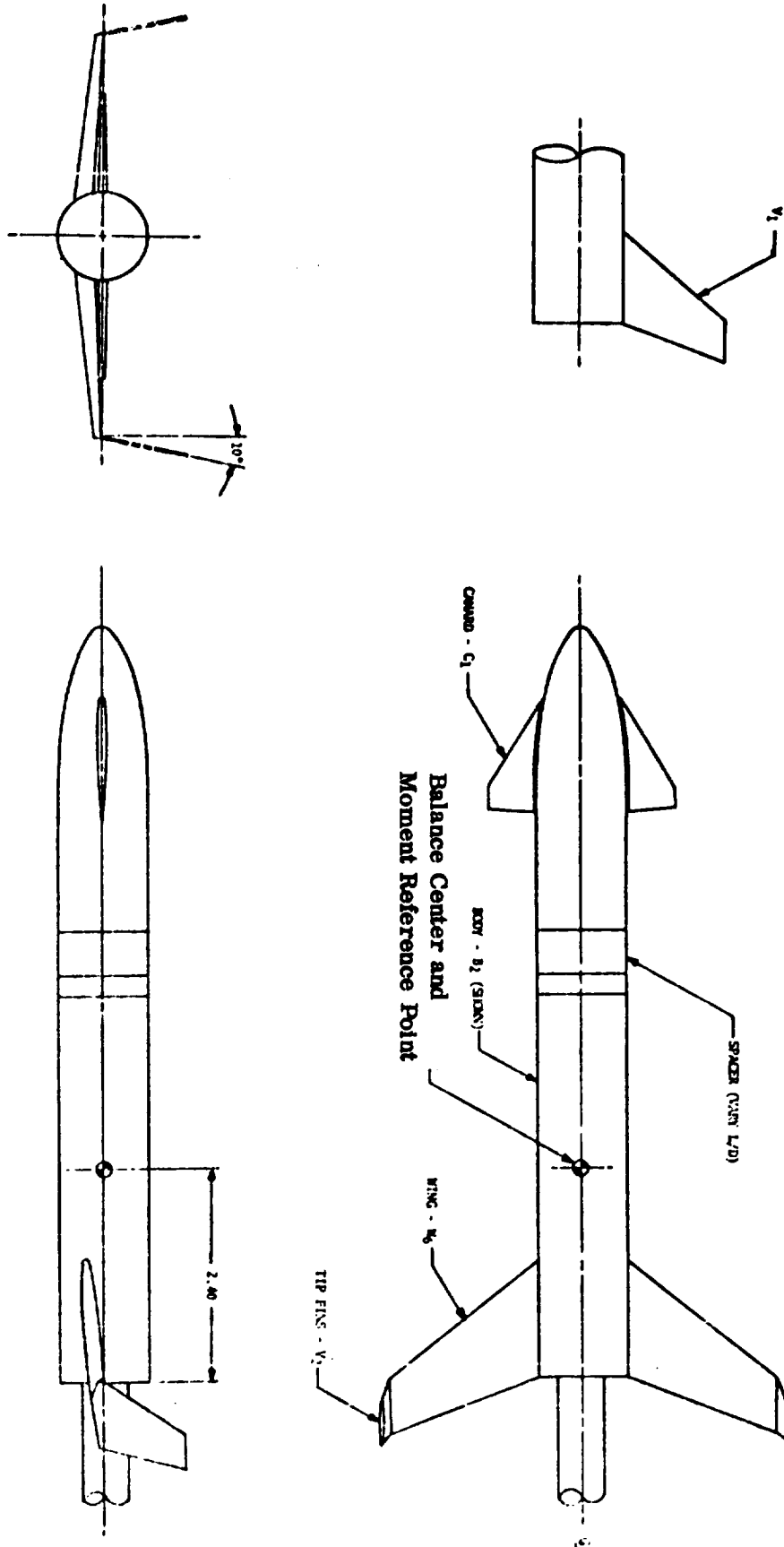


FIGURE 5. 0.002456 SCALE AR11981-1 BOOSTER MODEL

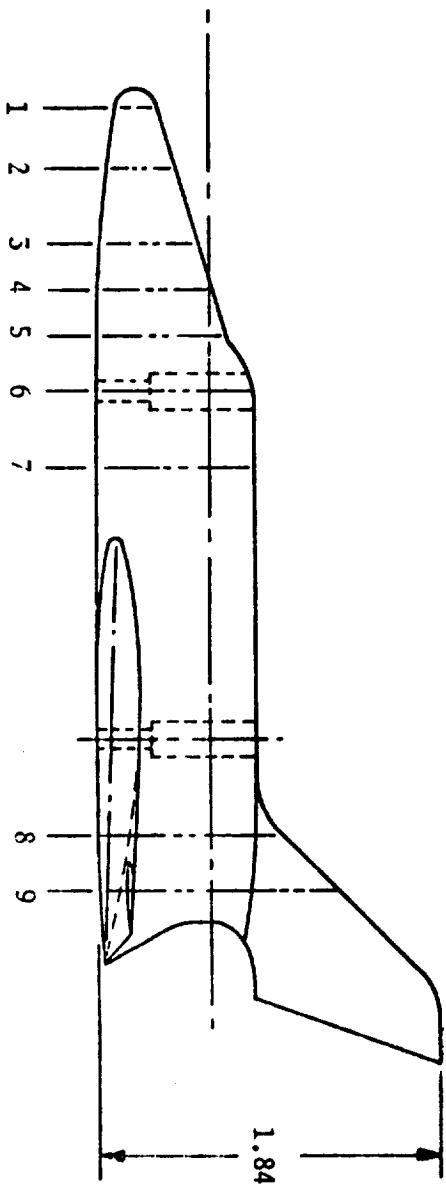
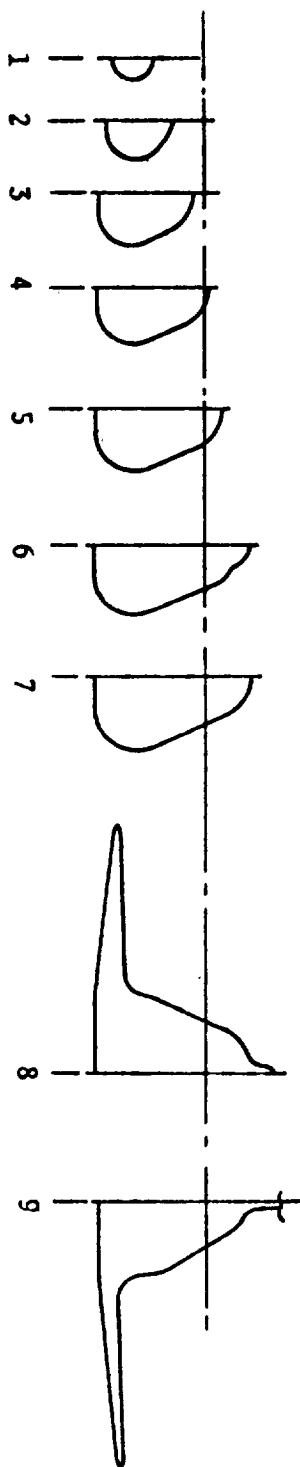
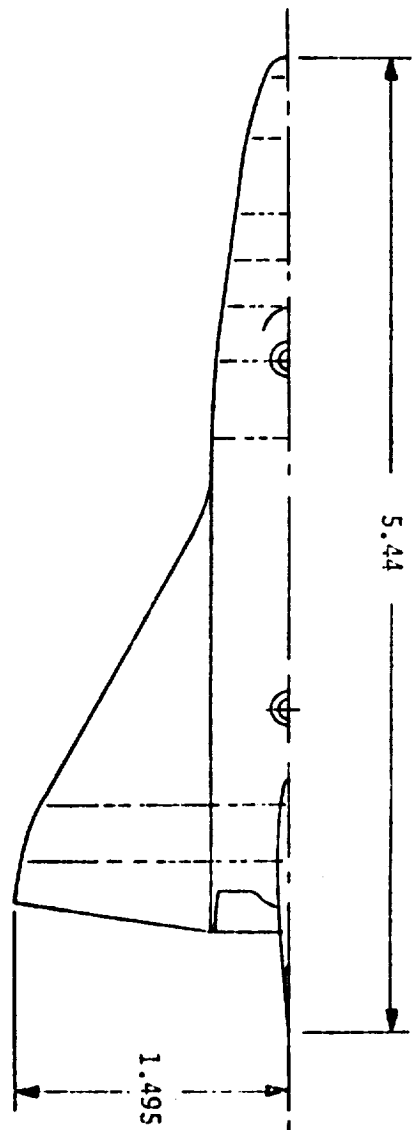


FIGURE 6. GRASMAN G3-A ORBITER BODY

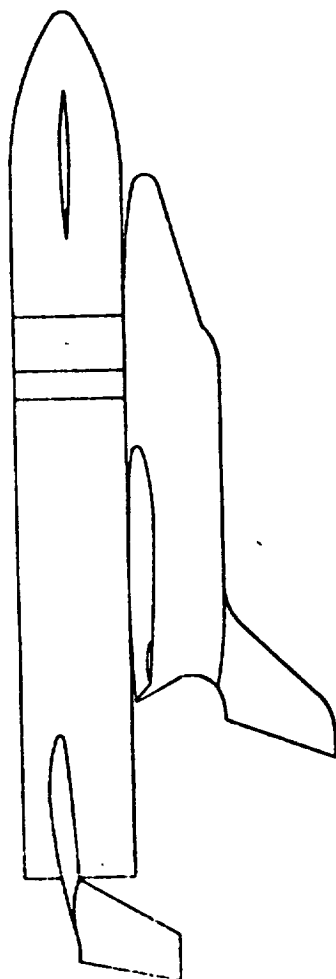
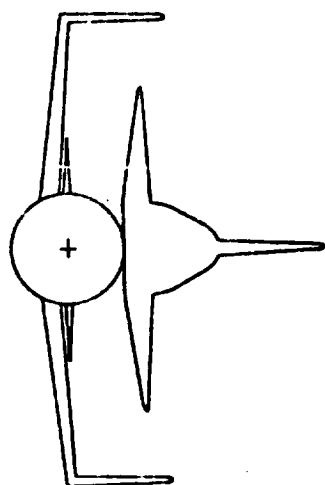
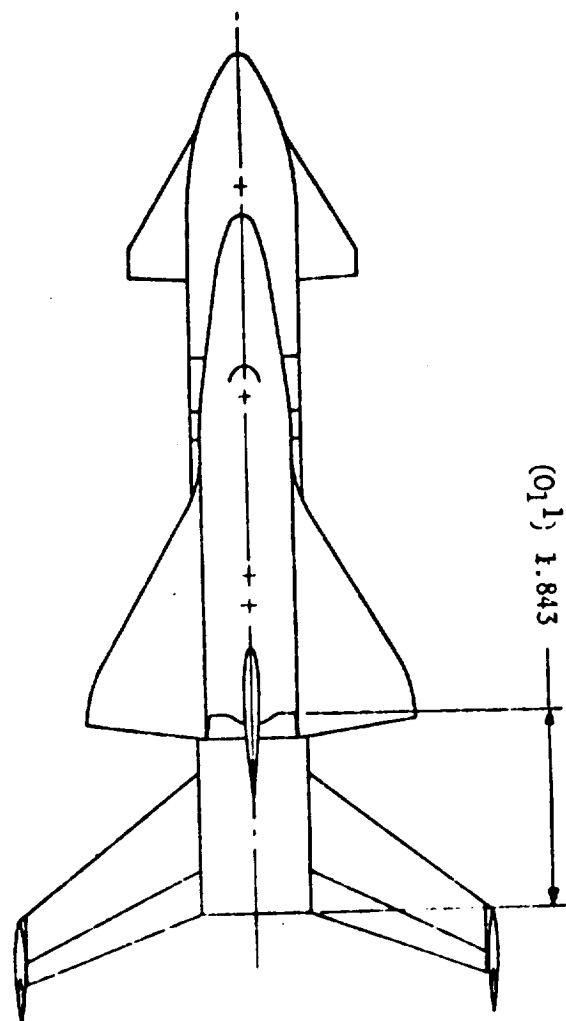


FIGURE 7. BOOSTER ORBITER CONFIGURATION

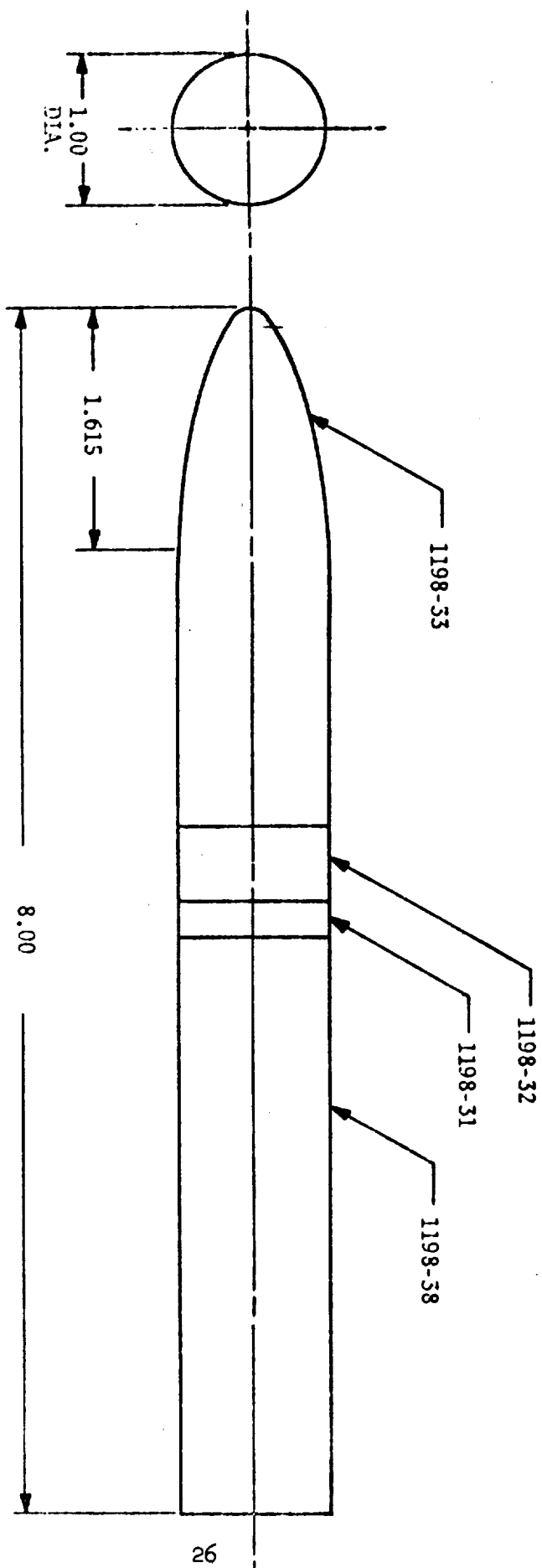


FIGURE 8. AR-1198 BODY B2

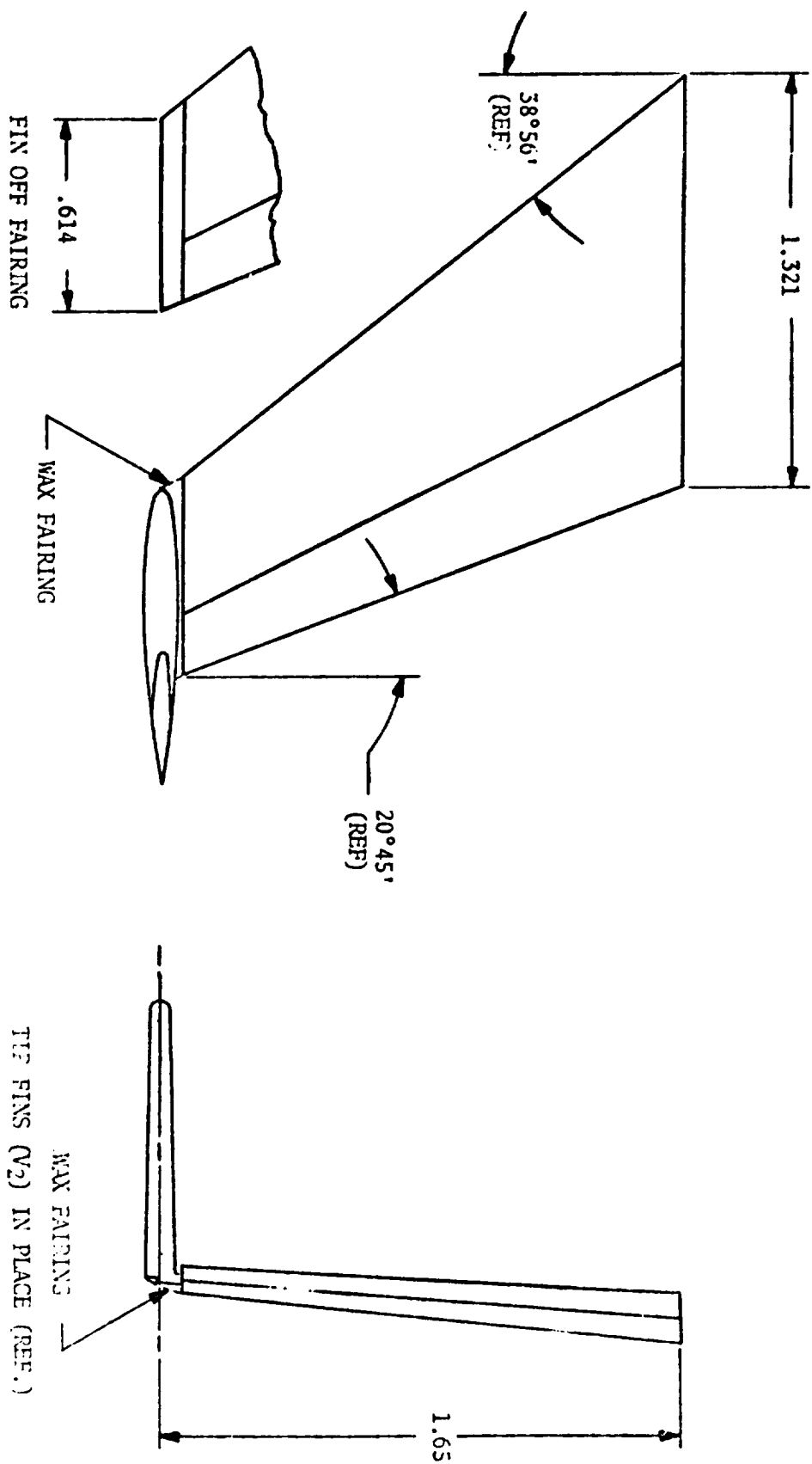


FIGURE 9. WING, W6

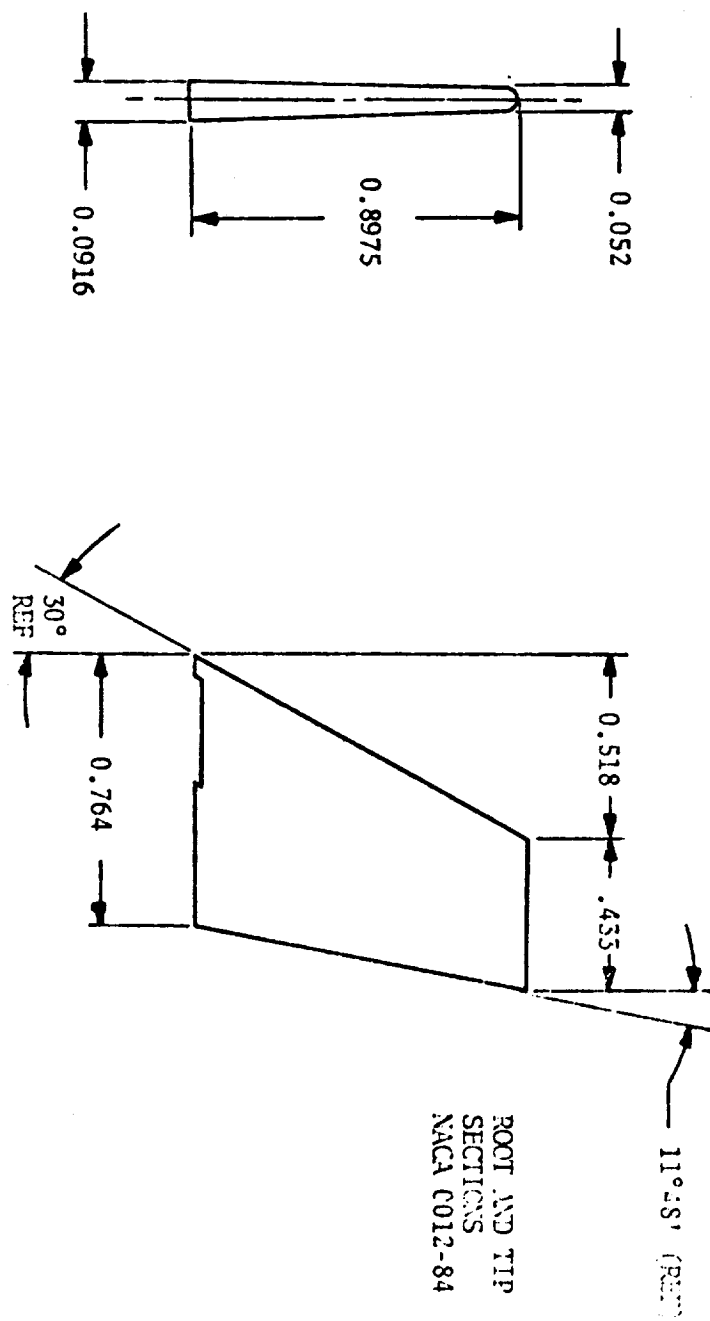


FIGURE 10. WING TIP FINS, V2

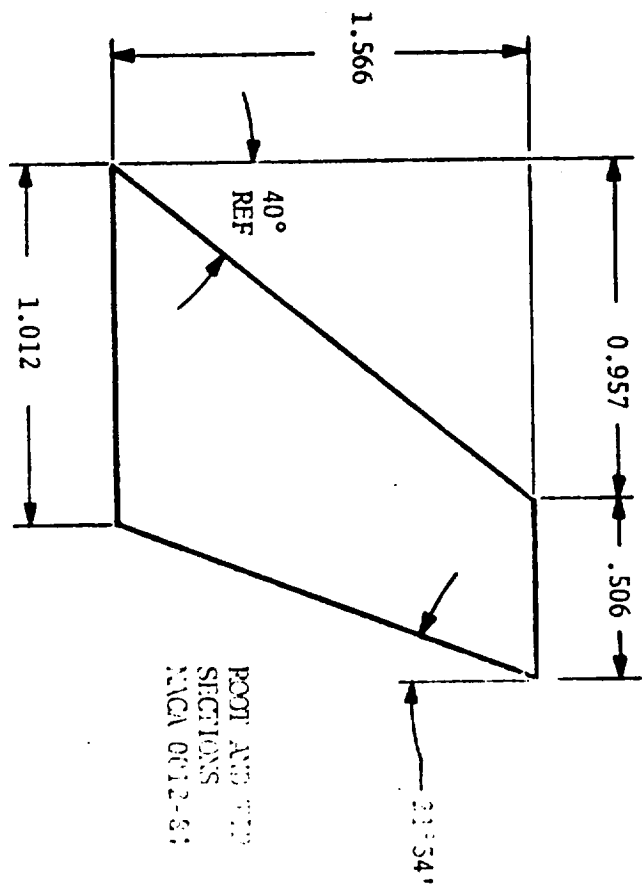
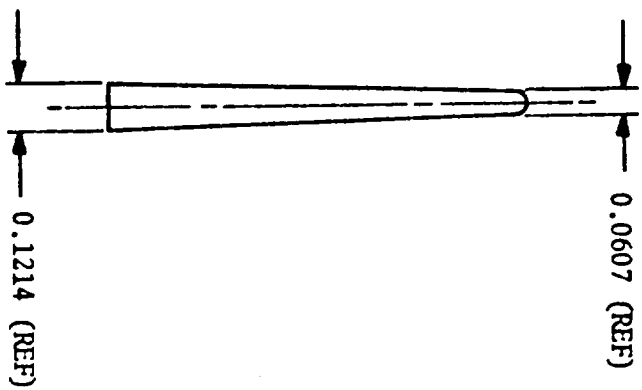


FIGURE 11. VERTICAL TAIL V₁
CENTERLINE

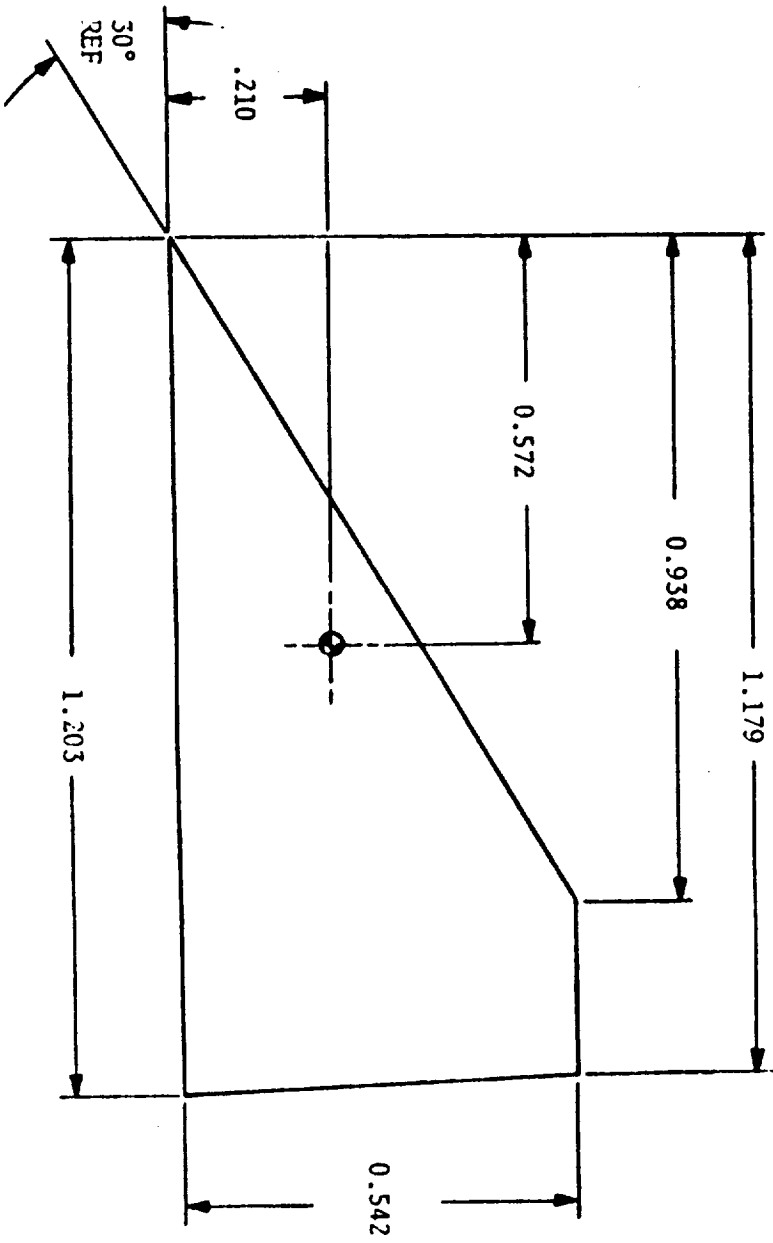
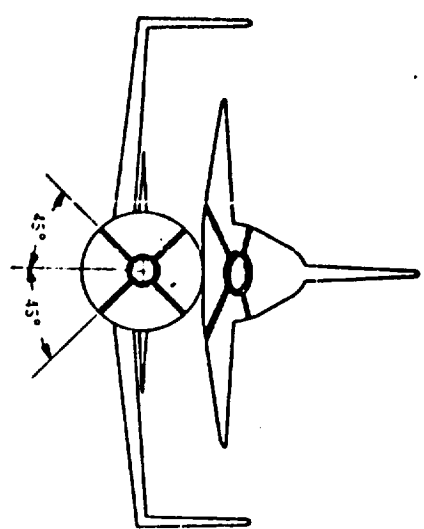


FIGURE 12. CANARD, C₁



ALL TRIP STRIP WIDTHS = 0.06 TO 0.08

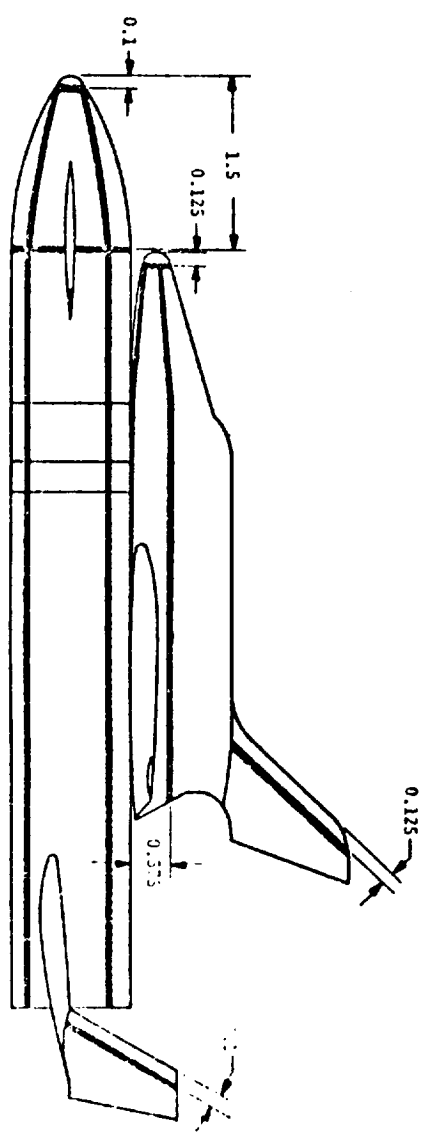
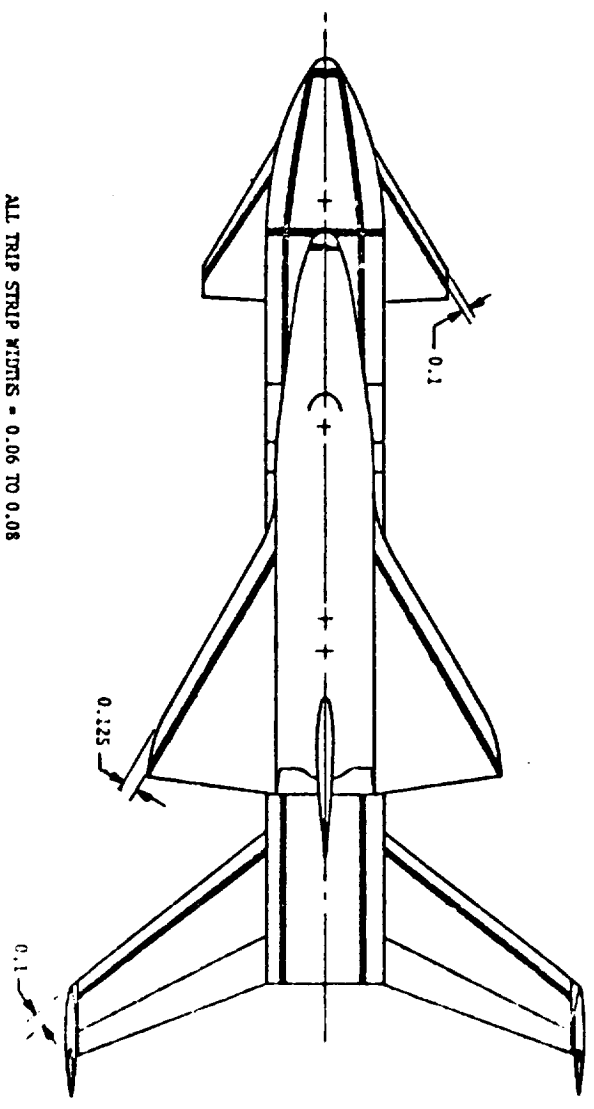


FIGURE 13. TRIP STRIP CHART

TABLE IV.

MODEL COMPONENT: ORBITER - 01 (SEE FIGURE 6)

GENERAL DESCRIPTION: 0.002456 SCALE GRUMMAN G3-A ORBITER

DRAWING NUMBER: 1198-51

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> FT/FT ²	<u>MODEL SCALE</u> IN/IN ²
Area	_____	_____
Span (equivalent)	_____	2.99
Inb'd equivalent chord	_____	_____
Outb'd equivalent chord	_____	_____
Ratio movable surface chord/ total surface chord	_____	_____
At Inb'd equiv. chord	_____	_____
At Outb'd equiv. chord	_____	_____
Sweep Back Angles, degrees	_____	_____
Leading Edge	_____	_____
Tailing Edge	_____	_____
Hingeline	_____	_____
Area Moment (Normal to hinge line)	_____	_____
Overall Length	_____	5.44

TABLE V.

MODEL COMPONENT: BODY - B2 (see figure 8)

GENERAL DESCRIPTION: 0.002456 SCALE CYLINDRICAL BODY WITH AN
AXISYMMETRIC NOSE

DRAWING NUMBER: 1198-50

<u>DIMENSIONS:</u>		<u>FULL-SCALE</u> <u>FT/FT²</u>	<u>MODEL SCALE</u> <u>IN/IN²</u>
Length		<u>271.44</u>	<u>8.000</u>
Max. Width		<u>33.931</u>	<u>1.000</u>
Max. Depth	Dia.	<u>33.931</u>	<u>1.000</u>
Fineness Ratio		<u>8/1</u>	<u>8/1</u>
Area			
Max. Cross-Sectional		<u>904.21</u>	<u>0.7854</u>
Planform		<u> </u>	<u> </u>
Wetted		<u> </u>	<u> </u>
Base		<u>904.21</u>	<u>0.7854</u>

TABLE VI.

MODEL COMPONENT: WING (W6) (SEE FIGURE 2)GENERAL DESCRIPTION: 0.002456 SCALE SWEEP WING WITH AR = 4.0, $\Lambda_{G/4} = 35^\circ$ DRAWING NUMBER: 1198-30A/34DIMENSIONS: FULL-SCALE MODEL SCALETOTAL DATA

Area		
Planform	<u>5318.91</u>	<u>4.62</u>
Wetted		
Span	<u>145.90</u>	<u>4.30</u>
Aspect Ratio	<u>3.99</u>	<u>3.99</u>
Rate of Taper		
Taper Ratio	<u>0.3998</u>	<u>0.3998</u>
Diehedral Angle, degrees	<u>5°</u>	<u>5°</u>
Incidence Angle, degrees	<u>Variable</u>	<u>Variable</u>
Aerodynamic Twist, degrees	<u>0.00</u>	<u>0.00</u>
Toe-In Angle		
Cant Angle		
Sweep Back Angles, degrees		
Leading Edge	<u>38.93</u>	<u>38.93</u>
Trailing Edge	<u>20.75</u>	<u>20.75</u>
0.25 Element Line	<u>35.0</u>	<u>35.0</u>
Chords:		
Root (Wing Sta. 0.0)	<u>52.12</u>	<u>1.536</u>
Tip, (equivalent)	<u>20.83</u>	<u>0.614</u>
MAC		
Fus. Sta. of .25 MAC		
W.P. of .25 MAC		
B.L. of .25 MAC		
Airfoil Section		
Root	<u>0012-84</u>	<u>0012-84</u>
Tip	<u>0012-84</u>	<u>0012-84</u>

EXPOSED DATA

Area	<u>3672.58</u>	<u>3.19</u>
Span, (equivalent)	<u>111.97</u>	<u>3.30</u>
Aspect Ratio	<u>3.40</u>	<u>3.40</u>
Taper Ratio	<u>0.464</u>	<u>0.464</u>
Chords		
Root	<u>44.82</u>	<u>1.321</u>
Tip	<u>20.83</u>	<u>0.614</u>
MAC		
Fus. Sta. of .25 MAC		
W.P. of Root Chord Below C	<u>5.49</u>	<u>0.162</u>
B.L. of .25 MAC		
0.3C T.E. Flaps	<u>$\delta = 0, \pm 10^\circ, -20^\circ, \pm 30^\circ$</u>	

TABLE VII.

MODEL COMPONENT: WING TIP FINS (V₂) (see Figure 10)

GENERAL DESCRIPTION: 0.002456 SCALE SWEPT LEADING EDGE/TRAILING EDGE WING

TIP FINS

DRAWING NUMBER:

1198-36

DIMENSIONS:

FULL-SCALE
FT/FT²MODEL SCALE
IN/IN²TOTAL DATA

Area

Planform

Wetted

Span (equivalent)

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees

Incidence Angle, degrees

Aerodynamic Twist, degrees

Toe-In Angle

Cant Angle (Roll Out)

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords:

Root (Wing Sta. 0.0)

Tip, (equivalent)

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section

Root

Tip

EXPOSED DATA

Area

Span, (equivalent)

Aspect Ratio

Taper Ratio

Chords

Root

Tip

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

TABLE VIII.

MODEL COMPONENT: VERTICAL STABILIZER (V1) (see Figure 11)GENERAL DESCRIPTION: 0.002456 SCALE TAIL WITH 40-DEGREE LEADING EDGE SWEEPANGLE - MOUNTED ON CENTERLINE BOOSTERDRAWING NUMBER: 1198-47DIMENSIONS:FULL-SCALE
FT/FT²MODEL SCALE
IN/IN²TOTAL DATA

Area
 Planform
 Wetted
 Span (equivalent)
 Aspect Ratio
 Rate of Taper
 Taper Ratio
 Dihedral Angle, degrees
 Incidence Angle, degrees
 Aerodynamic Twist, degrees
 Toe-In Angle
 Cant Angle
 Sweep Back Angles, degrees
 Leading Edge
 Trailing Edge
 0.25 Element Line
 Chords:
 Root (Wing Sta. 0.0)
 Tip, (equivalent)
 MAC
 Fus. Sta. of .25 MAC
 W.P. of .25 MAC
 B.L. of .25 MAC
 Airfoil Section
 Root
 Tip

EXPOSED DATA

Area
 Span, (equivalent)
 Aspect Ratio
 Taper Ratio
 Chords
 Root
 Tip
 MAC
 Fus. Sta. of .25 MAC
 W.P. of .25 MAC
 B.L. of .25 MAC

40
 21.34

0012-84
 0012-84

996.15
 38.68
 1.502
 0.50

34.61
 17.17

40
 21.34

0012-84
 0012-84

0.86526
 1.140
 1.502
 0.50

1.0120
 0.506

TABLE IX.

MODEL COMPONENT: CANARD (C₁) (see Figure 12)GENERAL DESCRIPTION: 0.002456 SCALE CLIPPED DELTA SURFACE, WITH A
60° LEADING EDGE SWEEP BACK ANGLE AND A 5 PERCENT BICNVX AIRFOILDRAWING NUMBER: 1198-40/41

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u> <u>FT/FT²</u>	<u>MODEL SCALE</u> <u>IN/IN²</u>
Area (Exp.)	<u>900.30</u>	<u>0.7820</u>
Span (equivalent)	<u>36.78</u>	<u>1.084</u>
Inb'd equivalent chord	<u>40.818</u>	<u>1.203</u>
Outb'd equivalent chord	<u>8.17</u>	<u>0.241</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>1/1</u>	<u>1/1</u>
At Outb'd equiv. chord	<u></u>	<u></u>
Sweep Back Angles, degrees		
Leading Edge	<u>60°</u>	<u>60°</u>
Tailing Edge	<u>-2.37°</u>	<u>-2.37°</u>
Hingeline	<u>0.25 MAC</u>	<u>0.25 MAC</u>
Area Moment (Normal to hinge line)	<u>Variable</u>	<u>Variable</u>
Incidence Angle, Degrees	<u>±30°</u>	<u>±30°</u>
Airfoil Section	<u>5% BICNVX</u>	<u>5% BICNVX</u>
Fus. Sta. of 0.25 MAC	<u>1.448d aft of nose</u>	<u>1.448d aft of nose</u>

NOMENCLATURE

(General)

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
α	ALPHA	angle of attack, angle between the projection of the wind X_w -axis on the body X, Z-plane and the body X-axis; degrees
β	BETA	sideslip angle, angle between the wind X_w -axis and the projection of this axis on the body X-Z-plane; degrees
ψ	PSI	yaw angle, angle of rotation about the body Z-axis, positive when the positive X-axis is rotated toward the positive Y-axis; degrees
ϕ	PHI	roll angle, angle of rotation about the body X-axis, positive when the positive Y-axis is rotated toward the positive Z-axis; degrees
ρ		air density; K_g/m^3 , slugs/ft ³
a		speed of sound; m/sec, ft/sec
V		speed of vehicle relative to surrounding atmosphere; m/sec, ft/sec
q	$Q(PSI)$ $Q(Psf)$	dynamic pressure; $1/2\rho V^2$, psi, psf
M	MACH	Mach number; V/a
RN/L	RN/L	Reynolds number per unit length; million/ft
p		static pressure; psi
P		total pressure; psi
C_p	CP	pressure coefficient; $(p-p_\infty)/q$

NOMENCLATURE (Continued)

Reference & C. G. Definitions

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
S		wing area; m^2 , ft^2
S	SREF	reference area; m^2 , ft^2
\bar{c}		wing mean aerodynamic chord or reference chord; m, ft, in (see l_{ref} or LREF)
l_{ref}	LREF	reference length; m, ft, in.; (see \bar{c})
b_{ref}	BREF	wing span or reference span; m, ft, in
A_b		base area; m^2 , ft^2 , in^2
c. g.		center of gravity
MRP	MRP	abbreviation for moment reference point
	XMRP	abbreviation for moment reference point on X-axis
	YMRP	abbreviation for moment reference point on Y-axis
	ZMRP	abbreviation for moment reference point on Z-axis

NOMENCLATURE (Continued)

Axis System General

SYMBOL

DEFINITION

F

force; F, lbs

M

moment; M, in-lb

Subscript

Definition

N

normal force

A

axial force

L

lift force

D

drag force

Y

force or moment about the Y axis

Z

moment about the Z axis

X

moment about the X axis

s

stability axis system

w

wind axis system

ref

reference conditions

∞

free stream conditions

t

total conditions

b

base

NOMENCLATURE (Continued)
Body & Stability Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
<u>Body Axis System</u>		
C_N	CN	normal force coefficient; F_N/qS
C_A	CA	axial force coefficient; F_A/qS
C_{A_b}	CAB	base axial force coefficient; $\begin{bmatrix} -1 \\ \end{bmatrix} \begin{bmatrix} (P_b - P_\infty)/q \end{bmatrix} (A_b/S)$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_n	CYN	yawing moment coefficient; $M_Z/qS b_{ref}$
C_l	CBL	rolling moment coefficient; $M_X/qS b_{ref}$
<u>Common to Both Axis Systems</u>		
C_m	CLM	pitching moment coefficient; $M_Y/qS l_{ref}$
C_y	CY	side force coefficient; F_Y/qS
<u>Stability Axis System</u>		
C_L	CL	lift force coefficient; F_L/qS
C_D	CD	drag force coefficient; F_D/qS
C_{D_b}	CDB	base drag coefficient
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_n	CLN	yawing moment coefficient; $M_{Z,s}/qS b_{ref}$
C_l	CSL	rolling moment coefficient; $M_{X,s}/qS b_{ref}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (Continued)

Surface Definitions

<u>SYMBOL</u>	<u>SADGAC SYMBOL</u>	<u>DEFINITION</u>
1t	HORIZT	horizontal tail incidence; positive when trailing edge down; degrees
δ		symmetrical surface deflection angle; degrees; positive deflections are:
	AILRON	saileron - total saileron deflection; (left saileron - right saileron)/2
	CANARD	canard - trailing edge down
	ELEVON	elevon - trailing edge down
	ELEVTR	elevator - trailing edge down
	FLAP	flap - trailing edge down
	RUDDER	rudder - trailing edge to the left
	SPOILER	spoiler - trailing edge down
	TAB	tab - trailing edge down with respect to control surface
δ		antisymmetrical surface deflection angle, degrees; positive trailing edge down:
	AIL-L	left saileron - trailing edge down
	AIL-R	right saileron - trailing edge down
	ELVN-L	left elevon - trailing edge down
	ELVN-R	right elevon - trailing edge down
	SPLR-L	left spoiler - trailing edge down
	SPLR-R	right spoiler - trailing edge down

<u>SURFACE SUBSCRIPTS</u>	<u>DEFINITION</u>
a	saileron
b	base
c	canard
e	elevator or elevon
f	flap
r	rudder or ruddervator
s	spoiler
t	tail

TABULATED DATA LISTING

A tabulated data listing, consisting of all zero data sets, both original and those created in arriving at the plotted material to be presented subsequently, is available as an addendum to this report. The tabular listing is made up in two sections:

- (a) a brief summary list of all data sets containing the identifier, the descriptor, and the resident dependent variables.
- (b) a full list of all data sets containing all resident or selected aerodynamic coefficients of the data sets as well as the above mentioned information.

The listing is currently sent on limited distribution to the following organizations:

NASA AMES	Mr. V. Stevens
NASA MSC	Mr. Ray Nelson
NASA MSFC	Mr. Jim Weaver

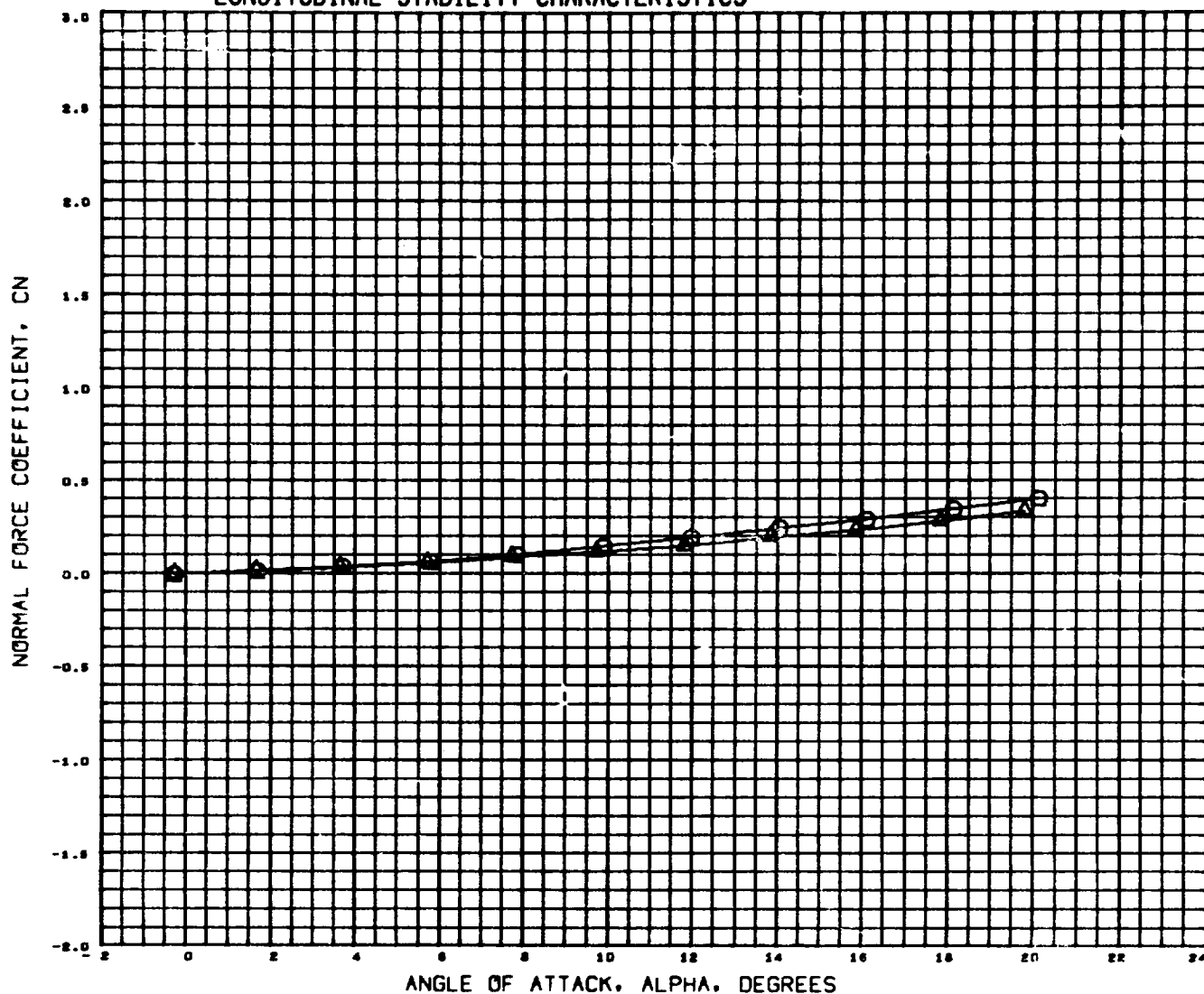
If copies of this listing are desired, please contact the above or the cognizant SADSAC personnel who, for this data, is:

W. R. Morgan
Department 2780
Chrysler Corporation Space Division
New Orleans, La. 70129

(504) 255-2304

PLOTTED DATA

LONGITUDINAL STABILITY CHARACTERISTICS

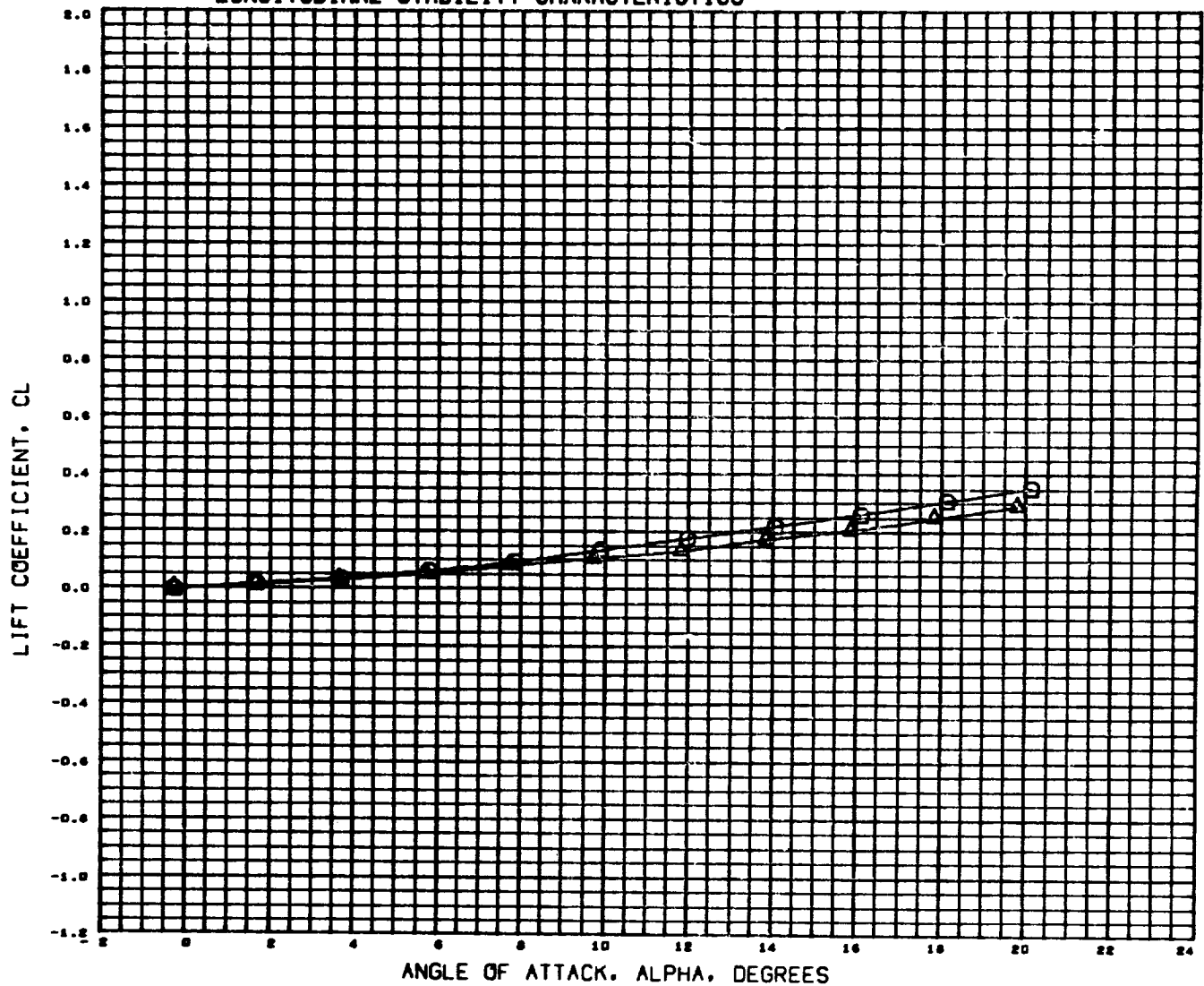


SYMBOL NACH BETA PARAMETRIC VALUES
 O 3.460 0.000
 Δ 4.959

REFERENCE INFORMATION
 SREF 4.6225 50.111.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CVSE

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL Δ MACH 3.480 BETA 0.000
 4.959

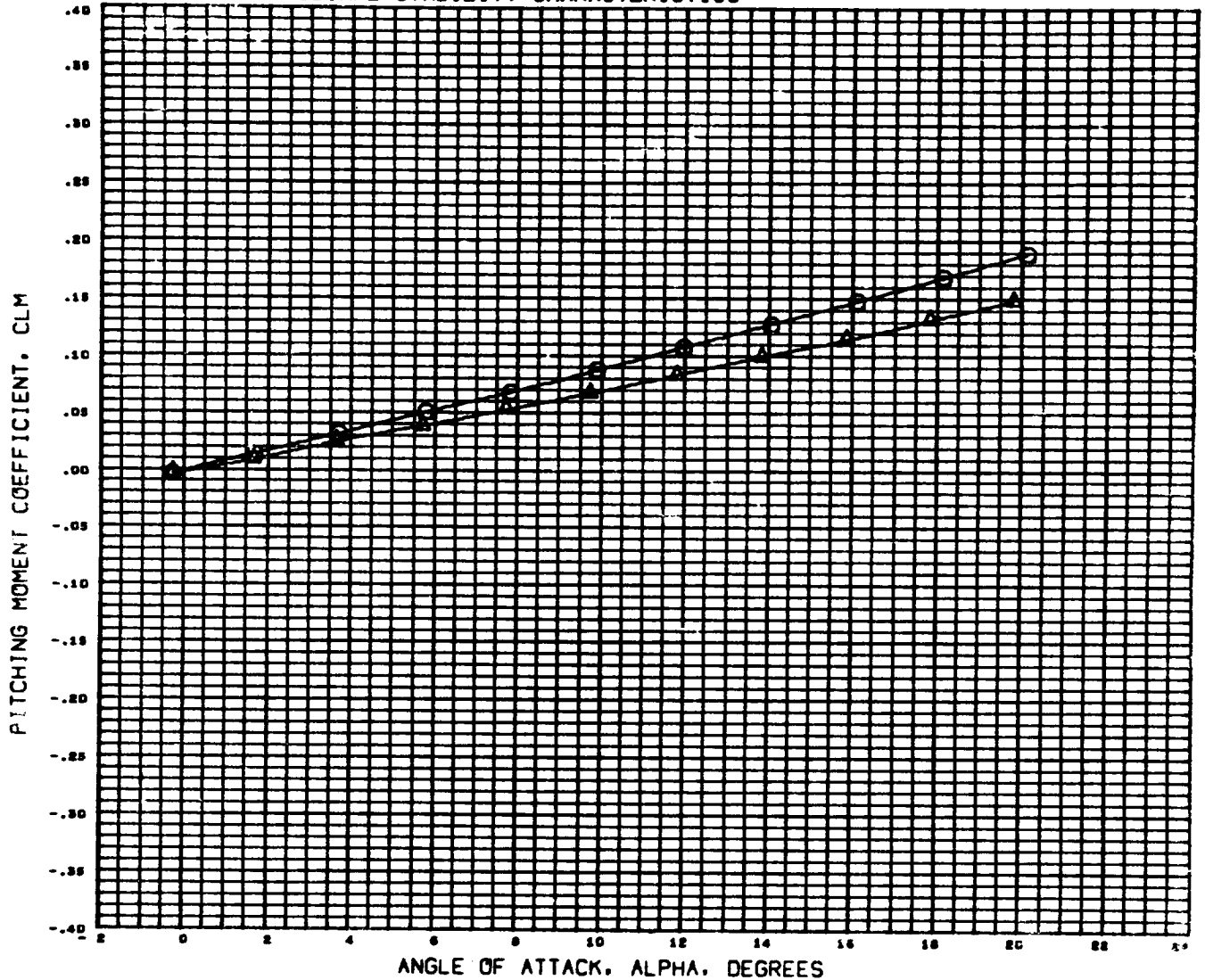
REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V8E

M492-MSFC AR1198I-1 MODEL B2

(E3401A) 24 AUG 71 PAGE 2

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL Δ MACH 3.490 BETA 0.000
 PARAMETRIC VALUES

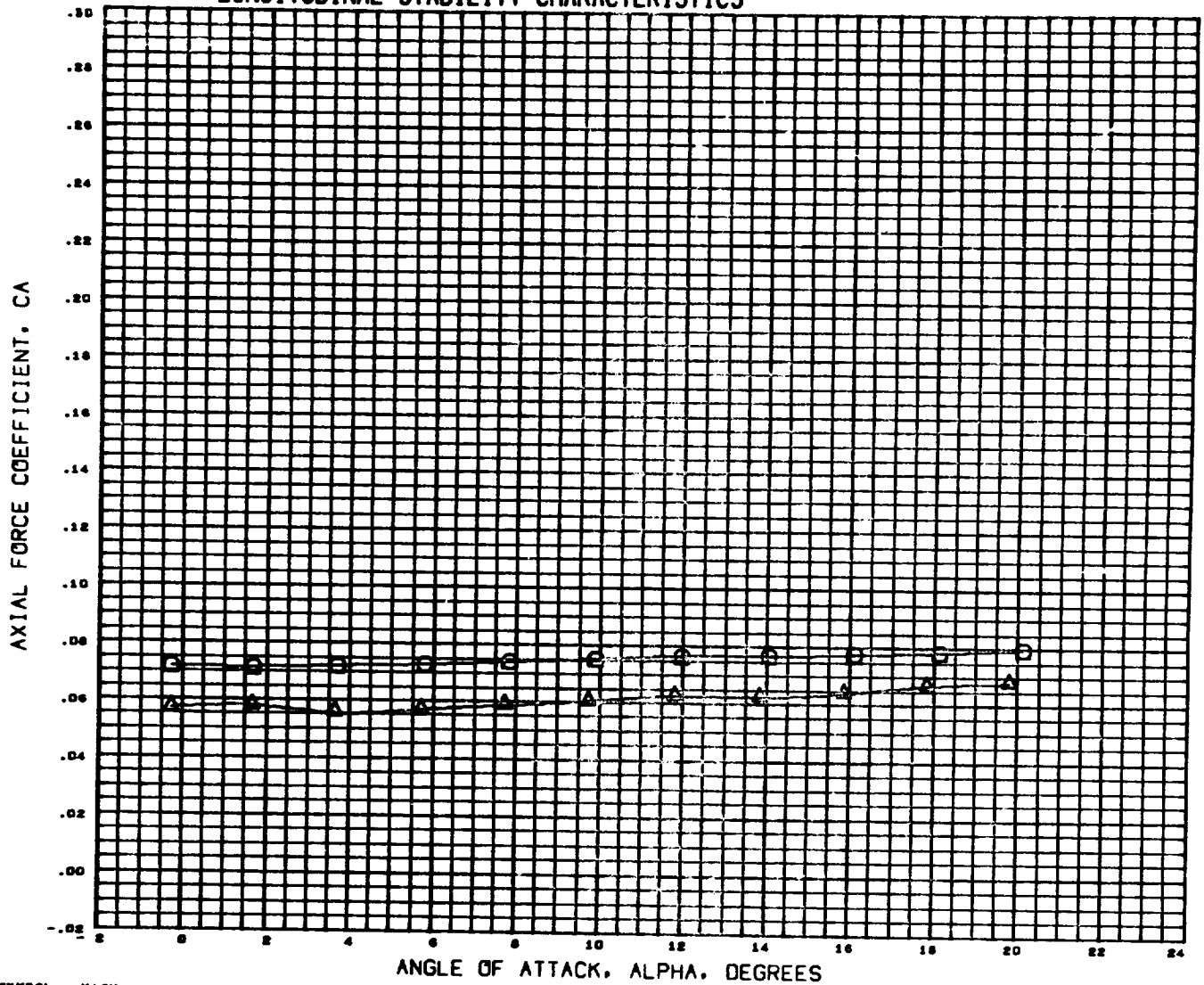
REFERENCE INFORMATION
 BREF 4.9225 88.1N.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST CODE 6V0E

M492-MSFC AR11931-1 MODEL B2

(E3401A) 24 AUG 71 PAGE 3

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL MACH BETA PARAMETRIC VALUES
 O 3.480 0.000
 Δ 4.850

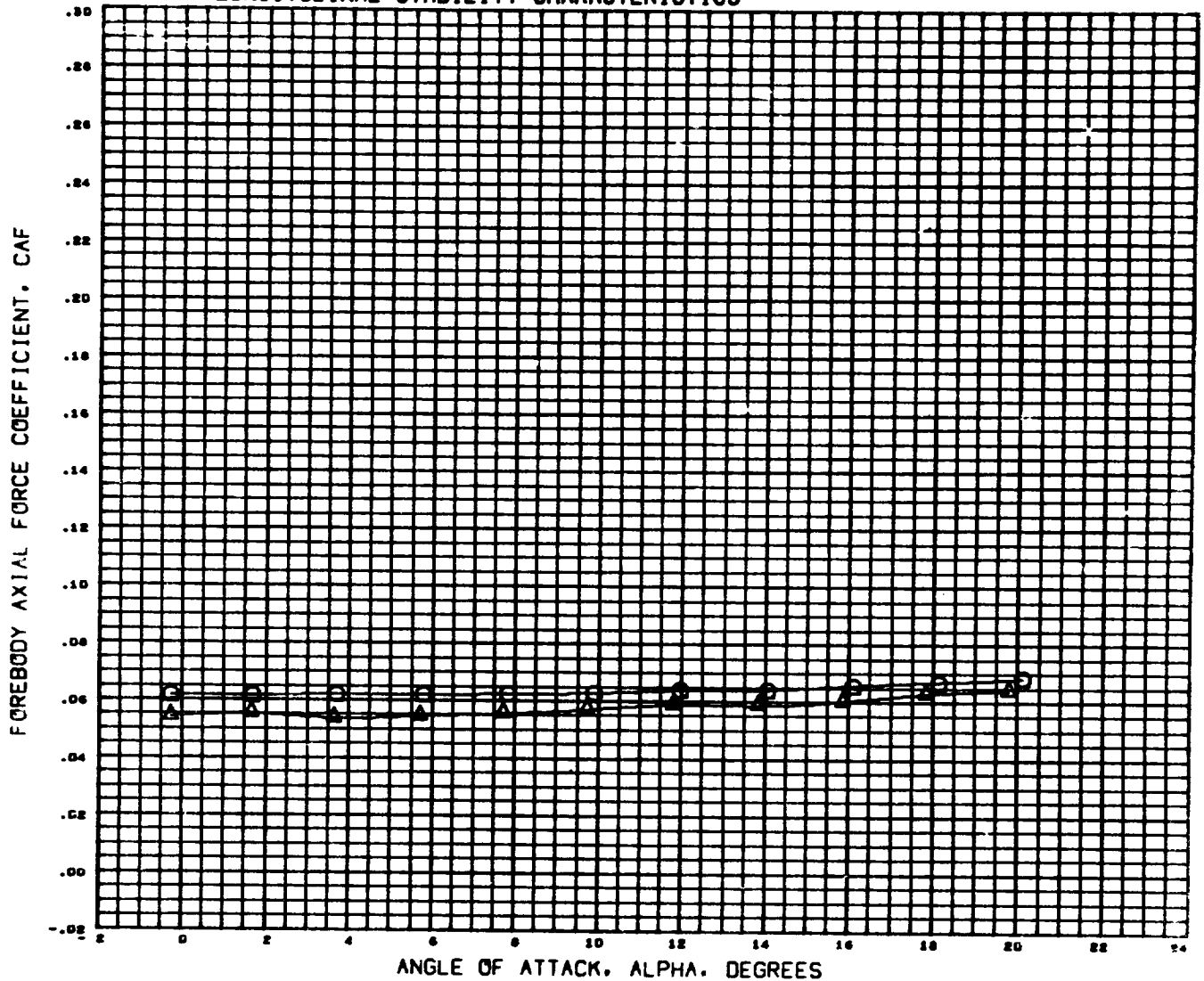
REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V9E

M492-MSFC AR1198I-1 MODEL B2

(E3401A) 24 AUG 71 PAGE 4

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL

MACH
 2.440
 4.859

BETA

PARAMETRIC VALUES
 0.000

REFERENCE INFORMATION

SREF	4.6225	36. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA M.S. CODE EVAL

M492-MSFC

AR11081-1

MODEL

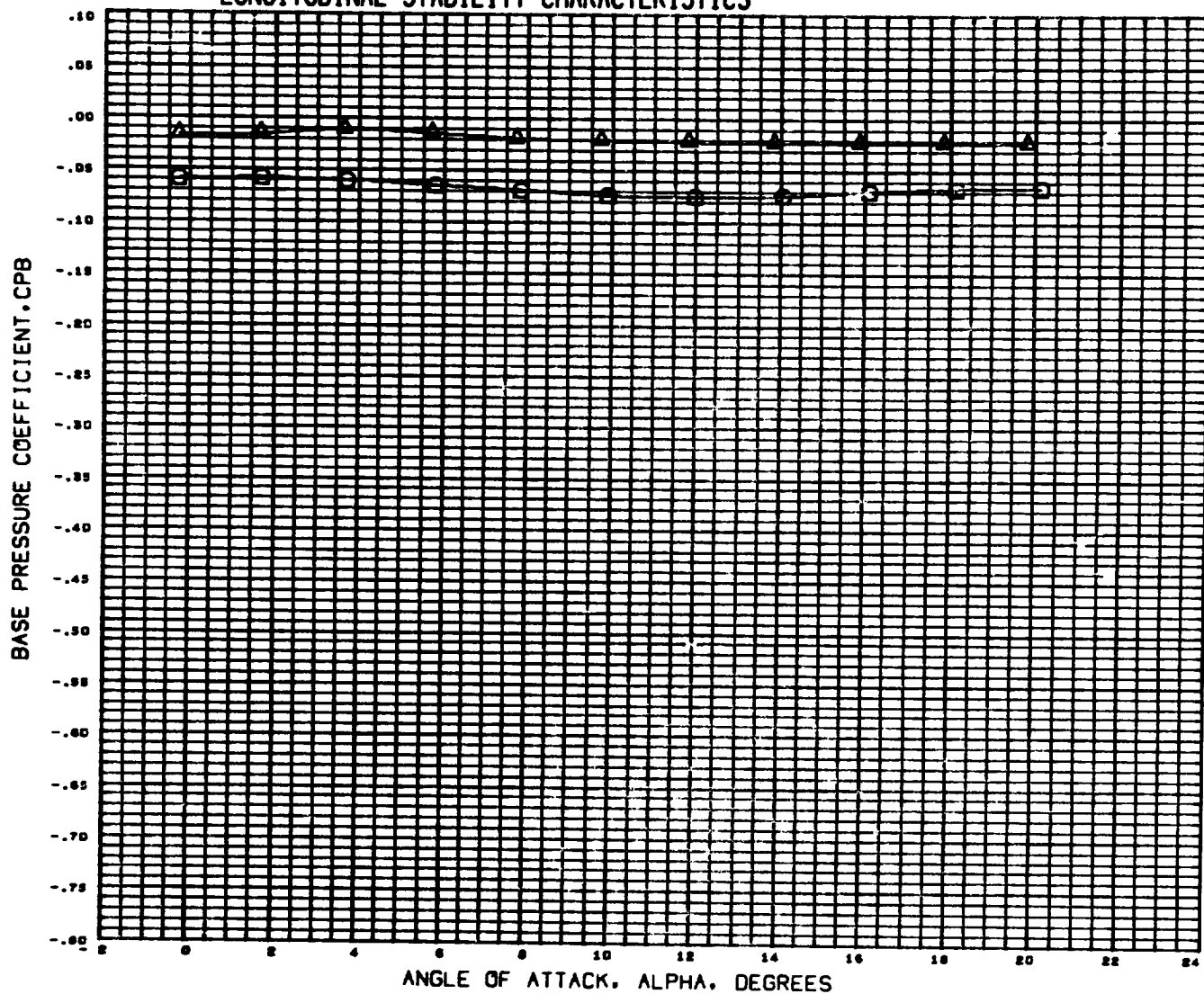
B2

(E3401A) 24 AUG 71

PAGE

5

LONGITUDINAL STABILITY CHARACTERISTICS



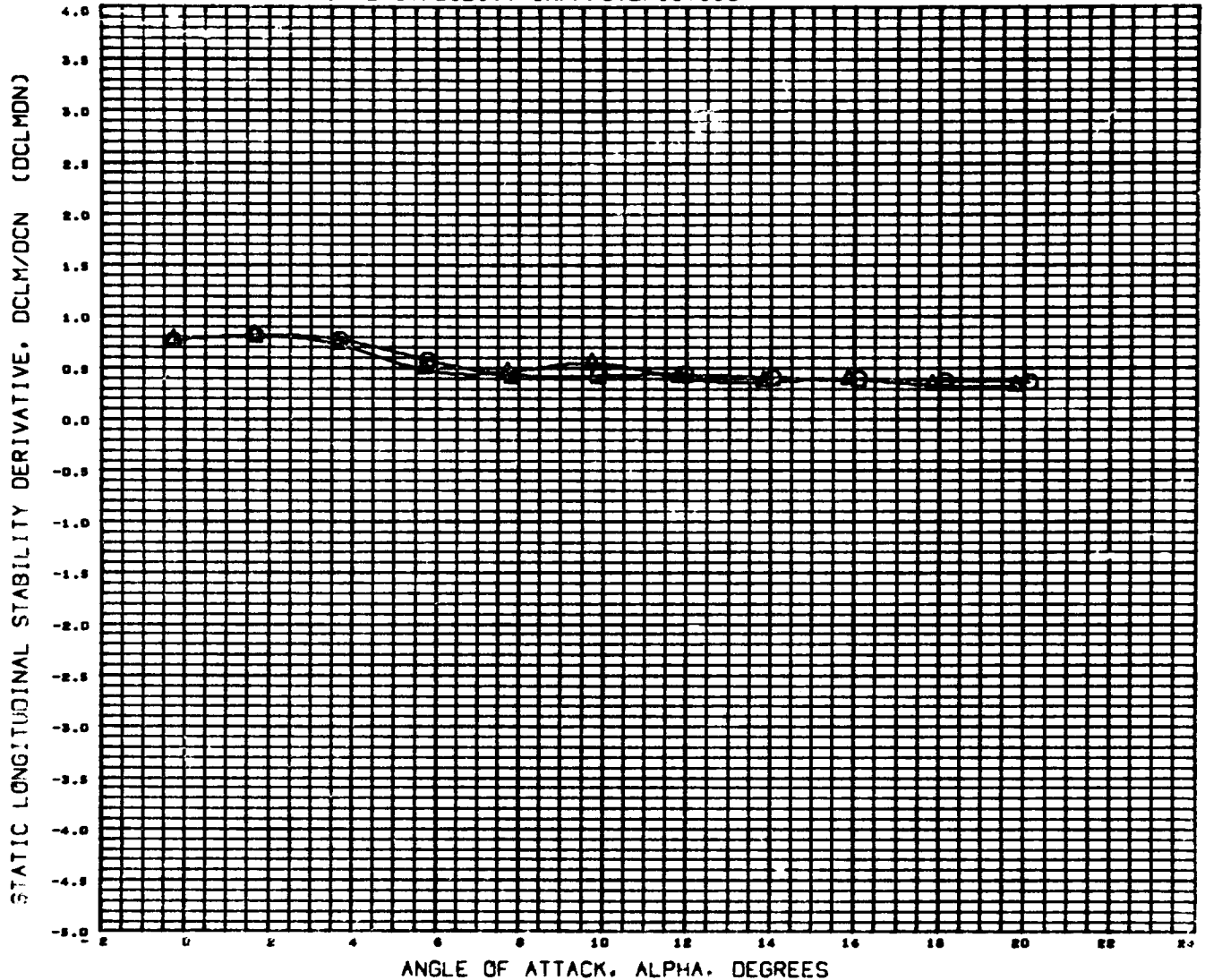
SYMBOL Δ \bigcirc
MACH 3.480 4.950
BETA 0.000
PARAMETRIC VALUES

REFERENCE INFORMATION
SREF 4.6225 30. IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2 (E3401A) 24 AUG 71 PAGE 6

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	BETA	PARAMETRIC VALUES	REFERENCE INFORMATION		
○	3.460		0.000	SREF	4.6225	80. IN.
	4.959			LREF	4.3000	IN.
				BREF	4.3000	IN.
				XMRP	8.4000	IN.
				YMRP	0.0000	IN.
				ZMRP	0.0000	IN.
				SCALE	0.0025	

M492-MSFC

AS1796-1

MODEL

B2

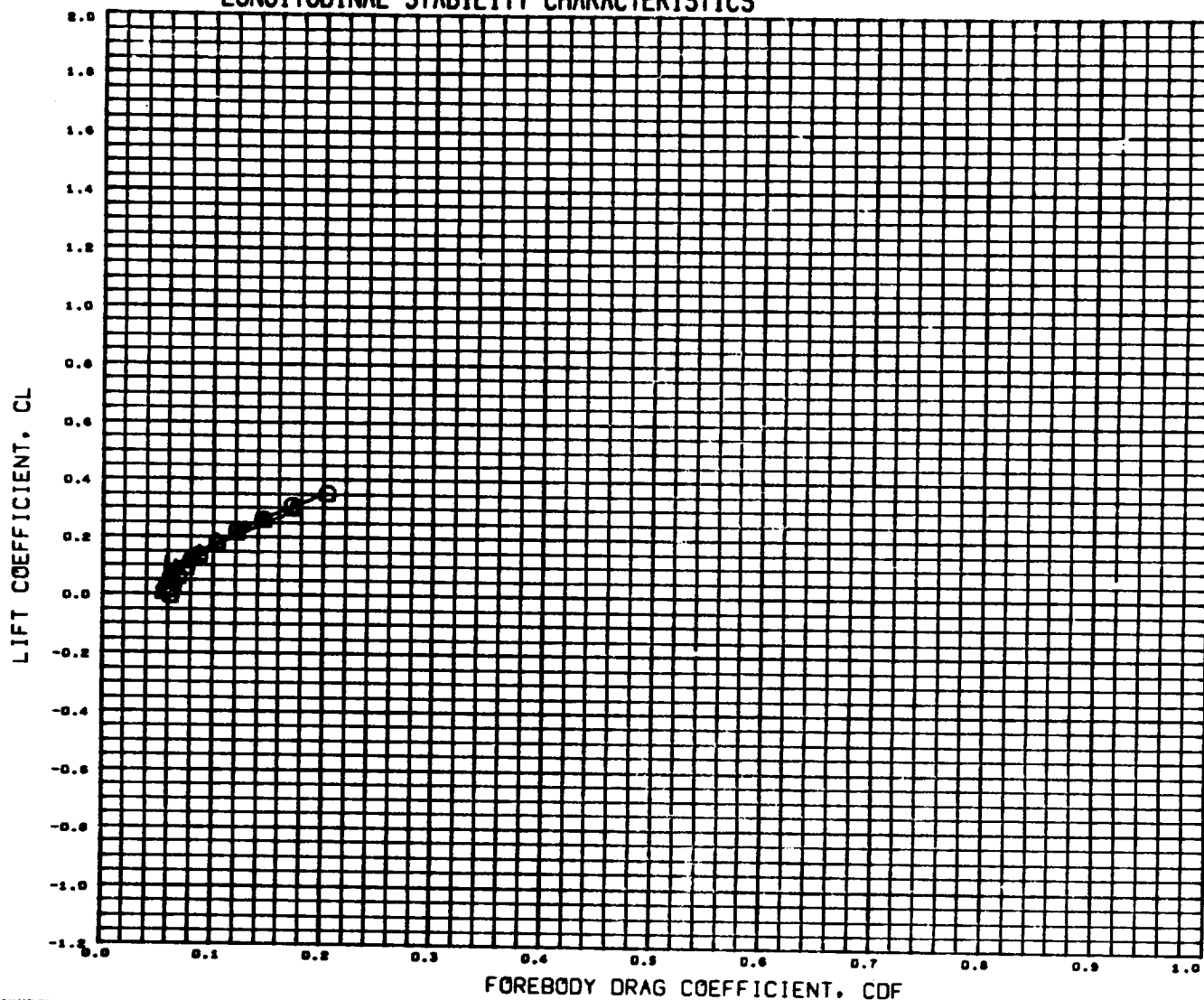
(E3401A)

24 AUG 71

PAGE

7

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL Δ MACH 3.480 BETA 0.000
4.858

FOREBODY DRAG COEFFICIENT, CDF

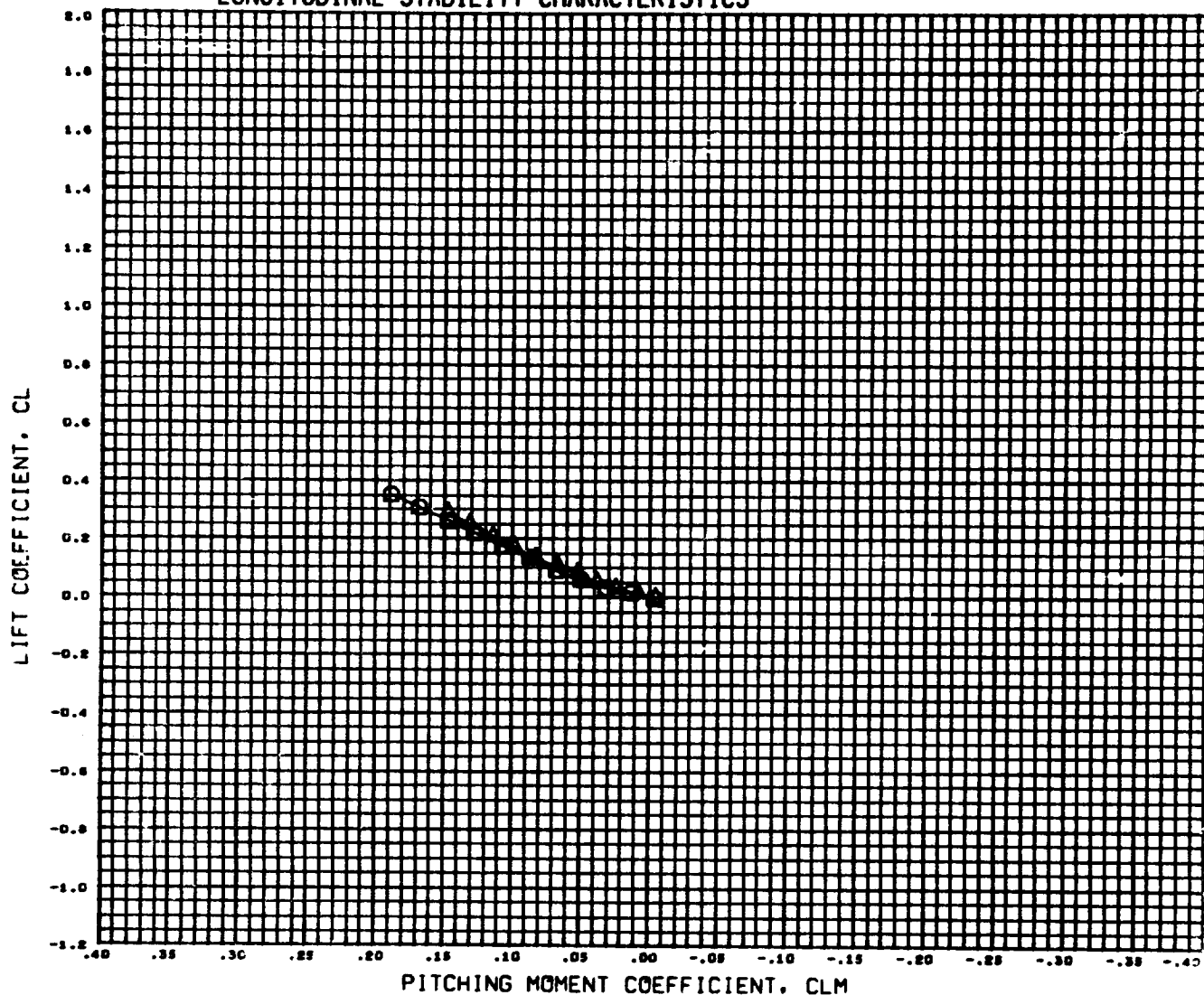
REFERENCE INFORMATION
SREF 4.6225 50. IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR1198I-1 MODEL B2

(E3401A) 24 AUG 71 PAGE 8

LONGITUDINAL STABILITY CHARACTERISTICS



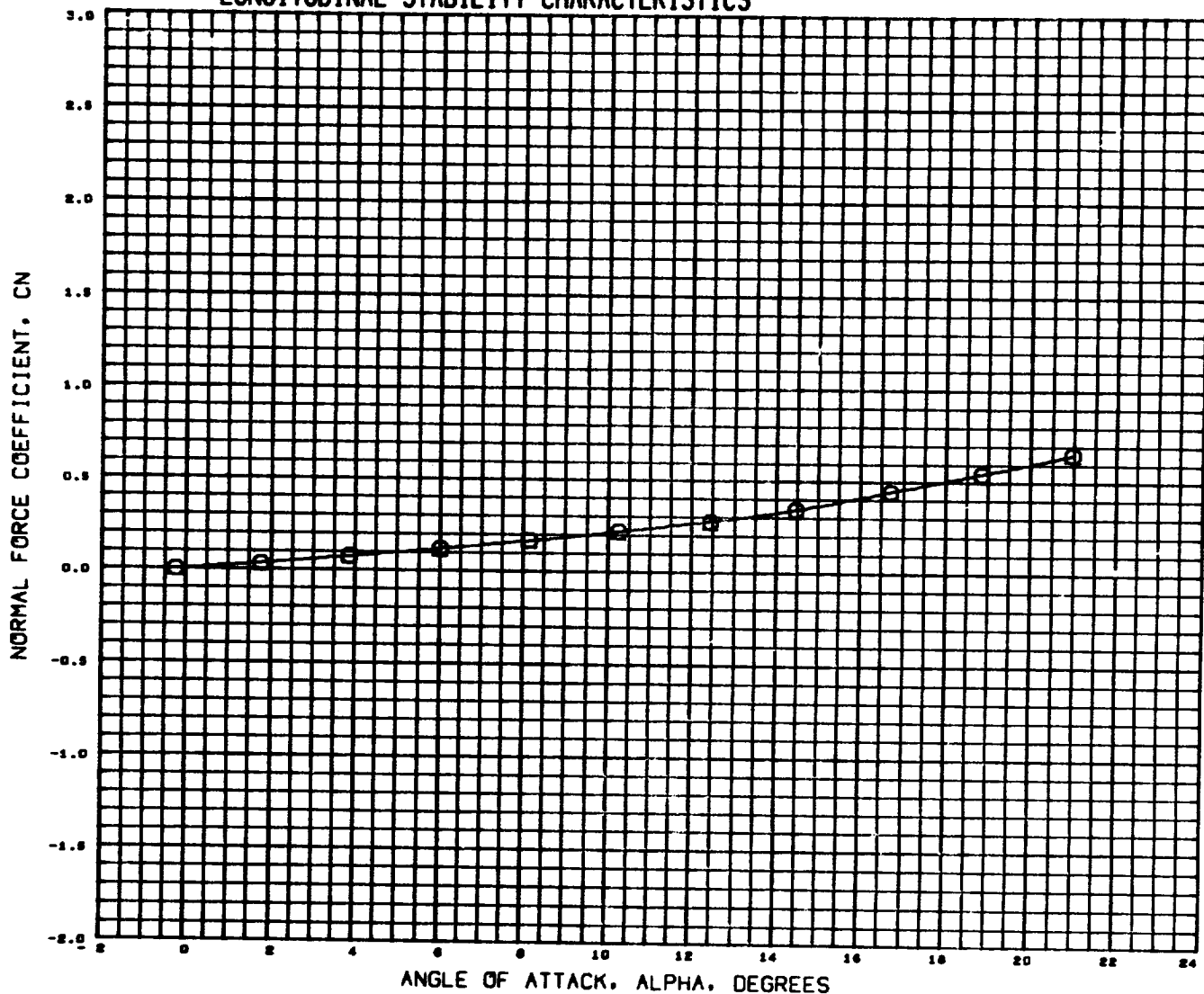
SYMBOL Δ MACH 3.400 BETA 0.000
 4.959

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE GVPE

M492-MSFC AR1190-1 MODEL B2 (E3401A) 24 AUG 71 PAGE 9

LONGITUDINAL STABILITY CHARACTERISTICS



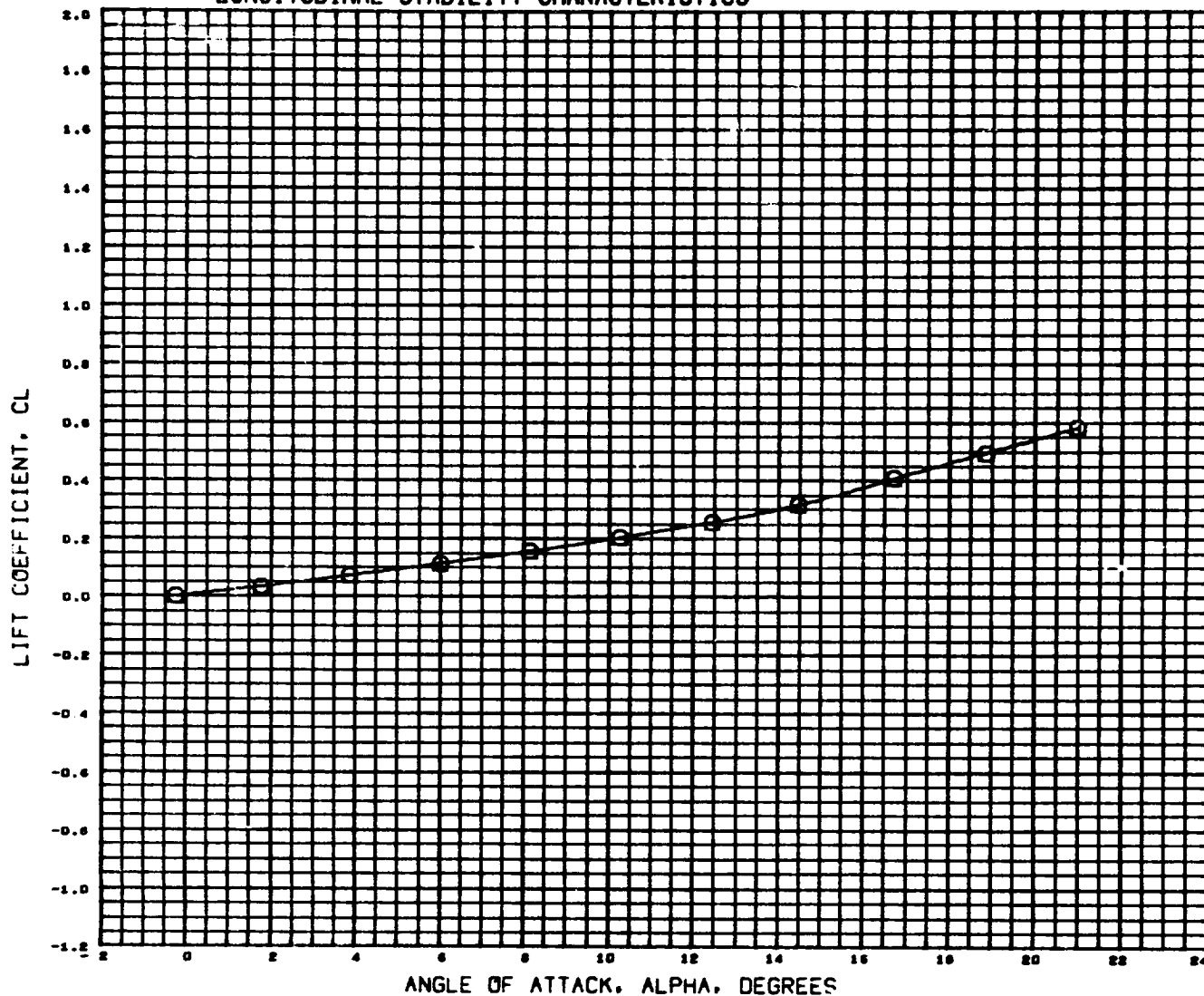
SYMBOL ☐ MACH 1.957 BETA 0.000 CANARD 0.000

DATA HIST. CODE 6V0E

REFERENCE INFORMATION
 SREF 4.6225 38. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

M492-MSFC AR11981-1 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 10

LONGITUDINAL STABILITY CHARACTERISTICS



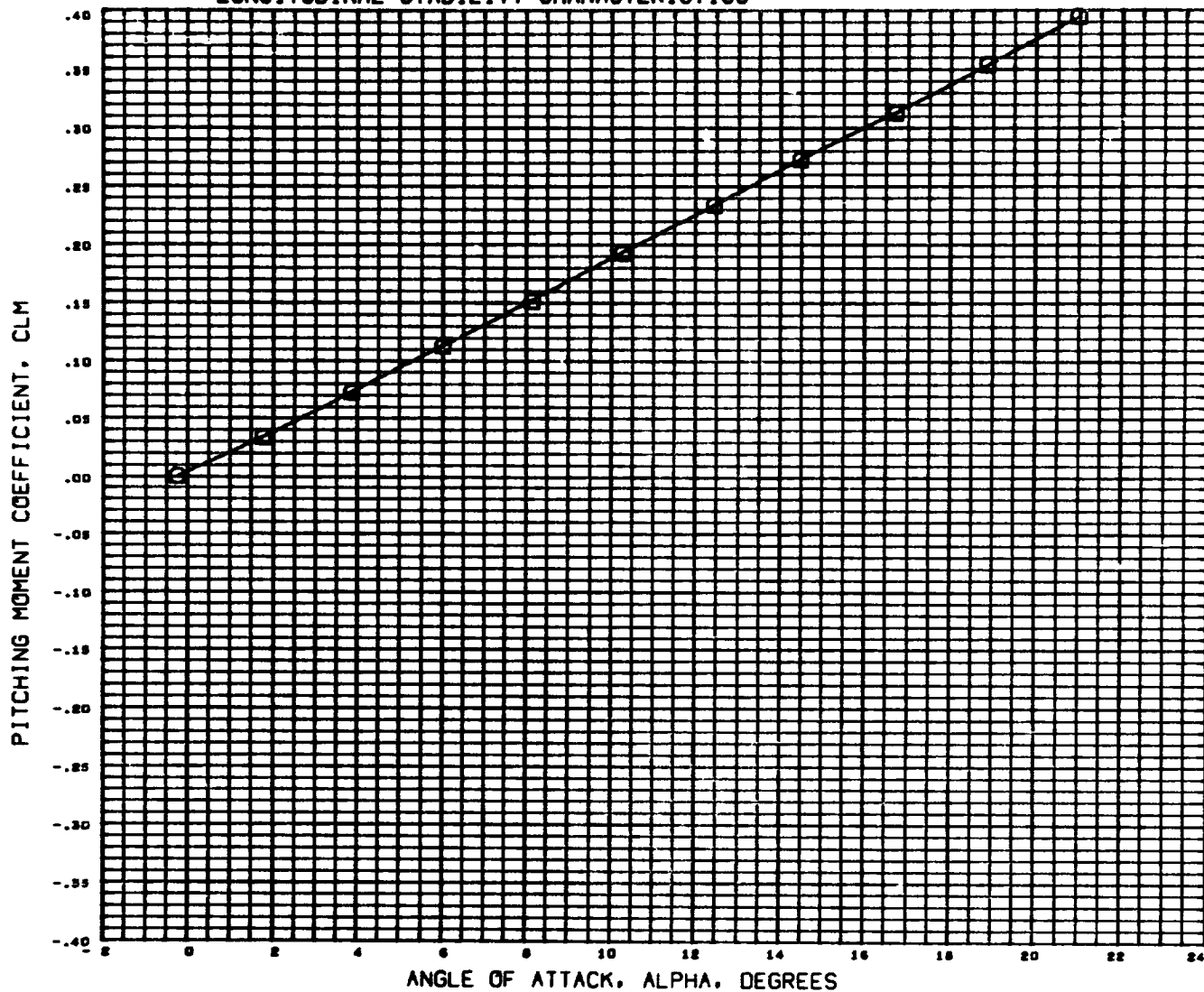
SYMBOL \square MACH 1.957 BETA 0.000 CANARD 0.000
 PARAMETRIC VALUES

REFERENCE INFORMATION
 SREF 4.6225 98.1N.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XREF 2.4000 IN.
 YREF 0.0000 IN.
 ZREF 0.0000 IN.
 SCALE 0.0025

DATA HIST. FILE GV06

②

LONGITUDINAL STABILITY CHARACTERISTICS



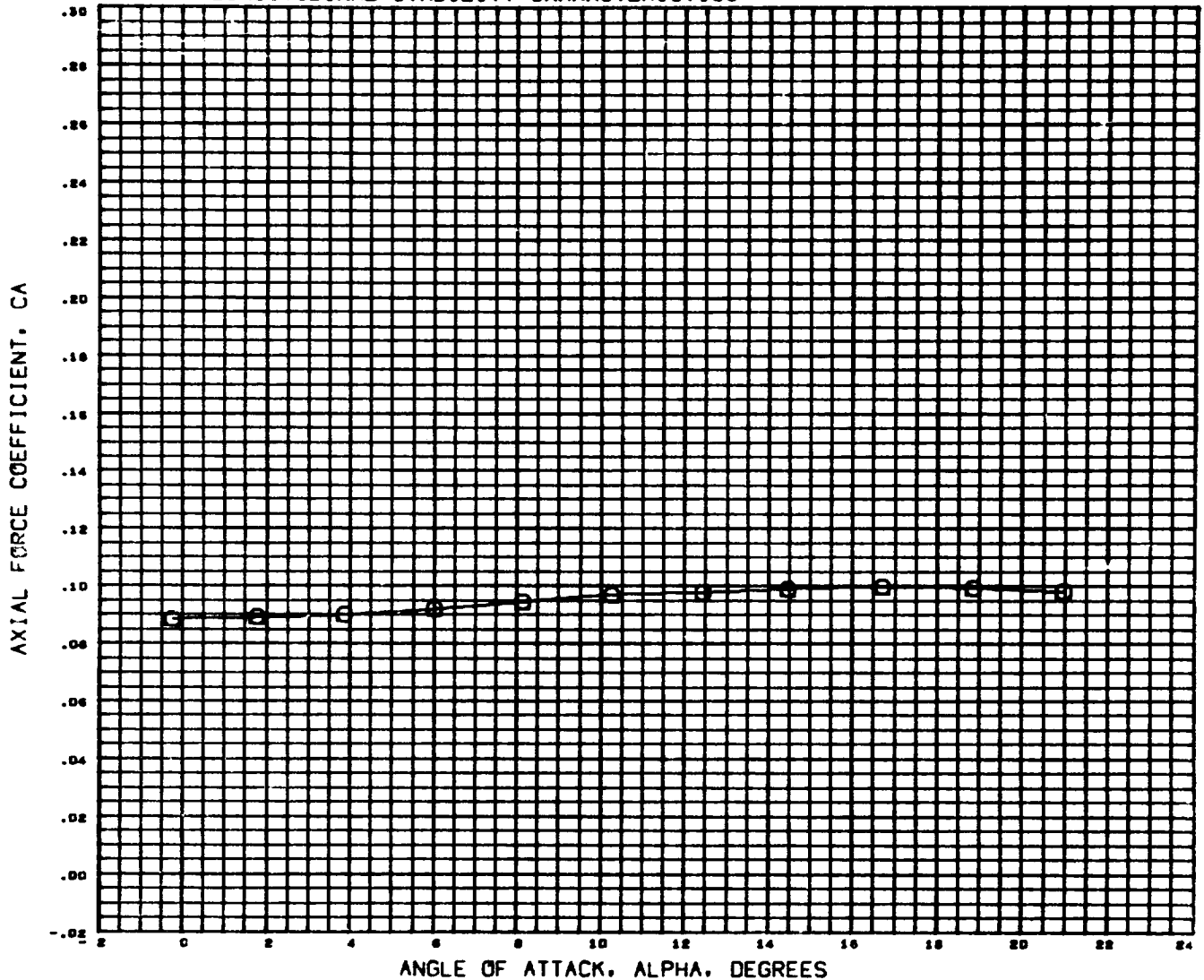
SYMBOL MACH BETA PARAMETRIC VALUES
 ○ 1.957 0.000 CANARD 0.000

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XHRP 2.4000 IN.
 YHRP 0.0000 IN.
 ZHRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 12

LONGITUDINAL STABILITY CHARACTERISTICS



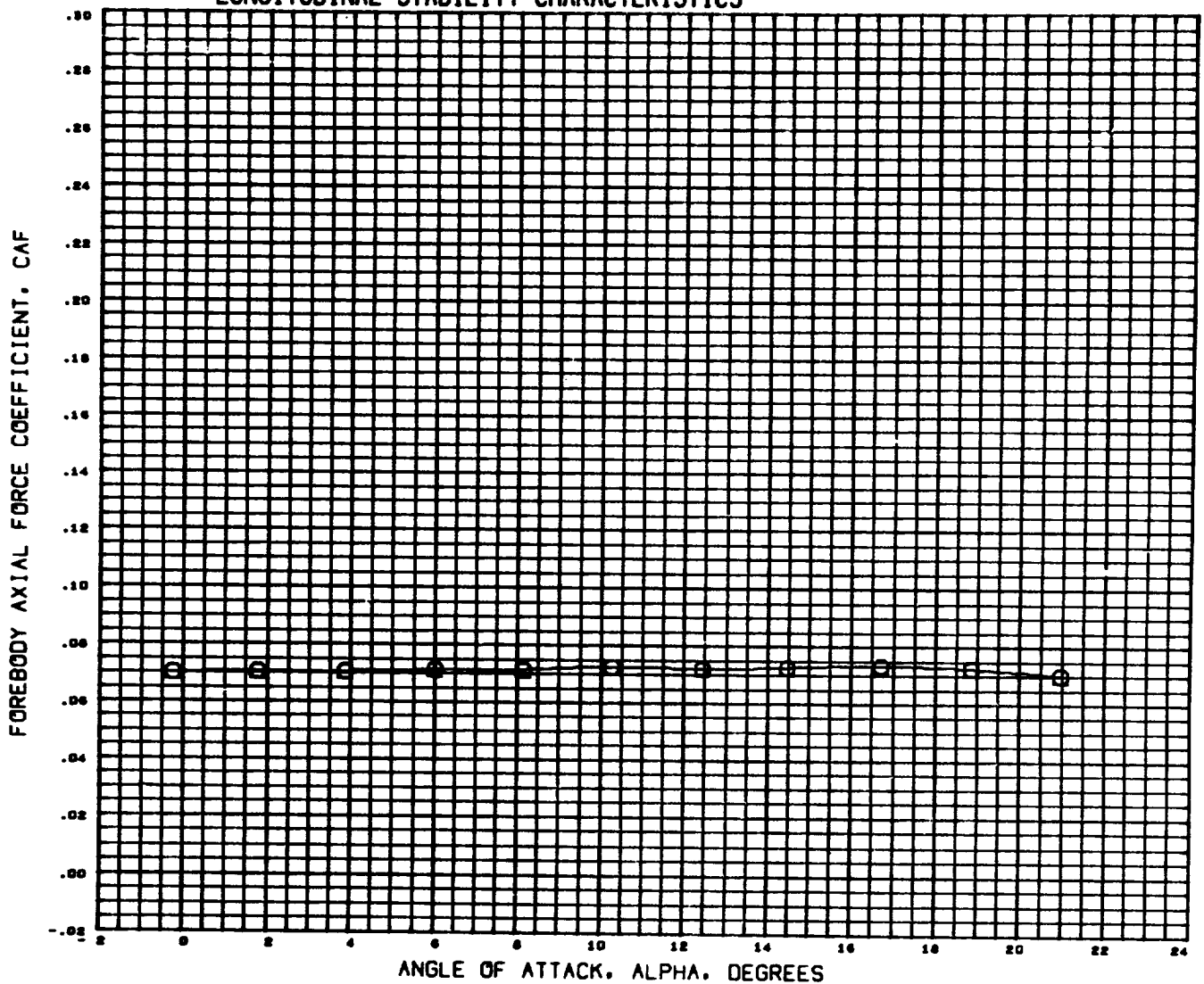
SYMBOL \bigcirc MACH 1.957 BETA 0.000 CANARD 0.000

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 SREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA MISCELLANEOUS CODE CVR

M492-MSFC AR119001 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 13

LONGITUDINAL STABILITY CHARACTERISTICS



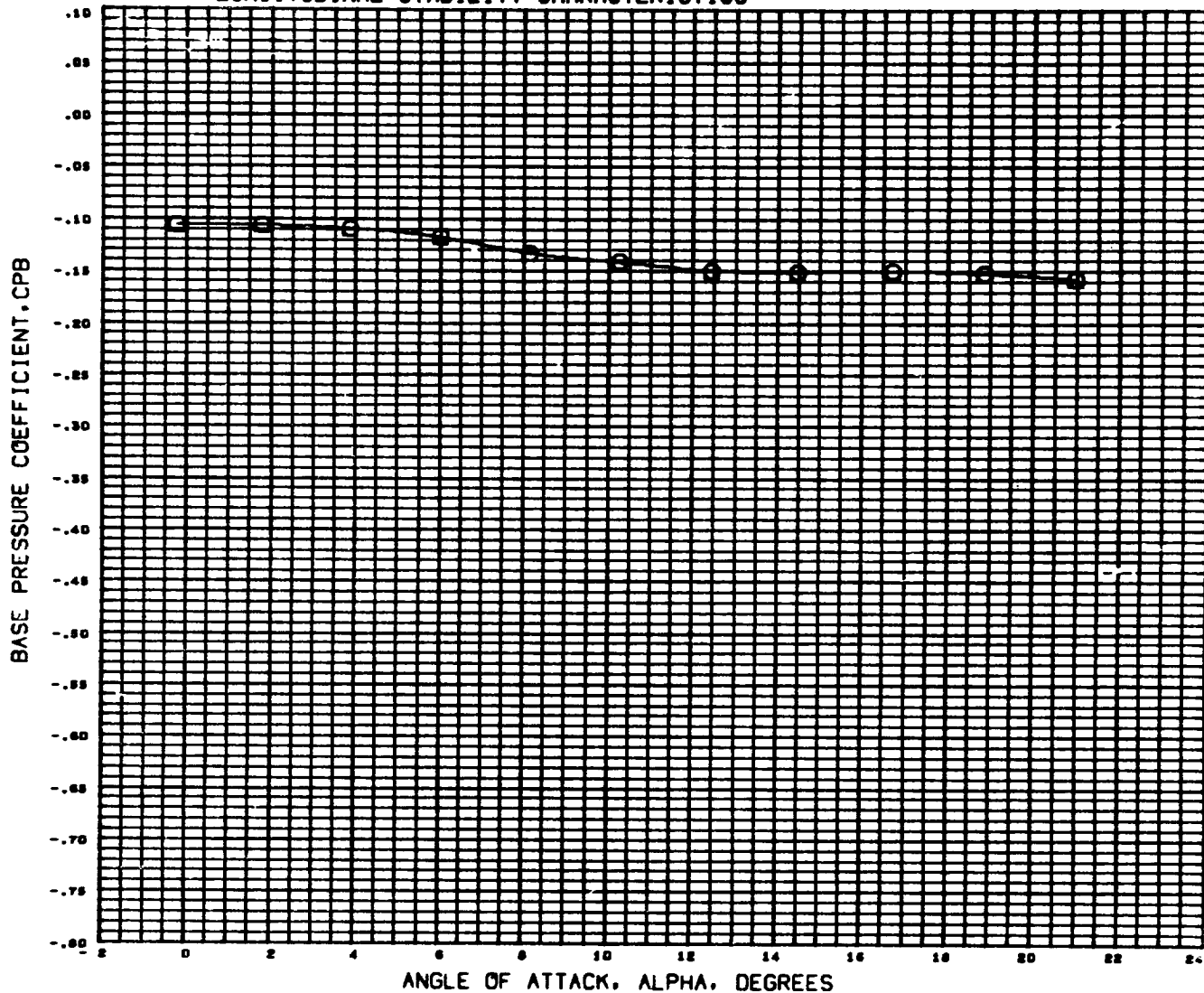
SYMBOL \square MACH 1.957 BETA 0.000 CANARD 0.000

REFERENCE INFORMATION
 SREF 4.6225 30.IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XNRP 2.4000 IN.
 YNRP 0.0000 IN.
 ZNRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 14

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL ☐ MACH 1.937 BETA 0.000 CANARD 0.000

PARAMETRIC VALUES

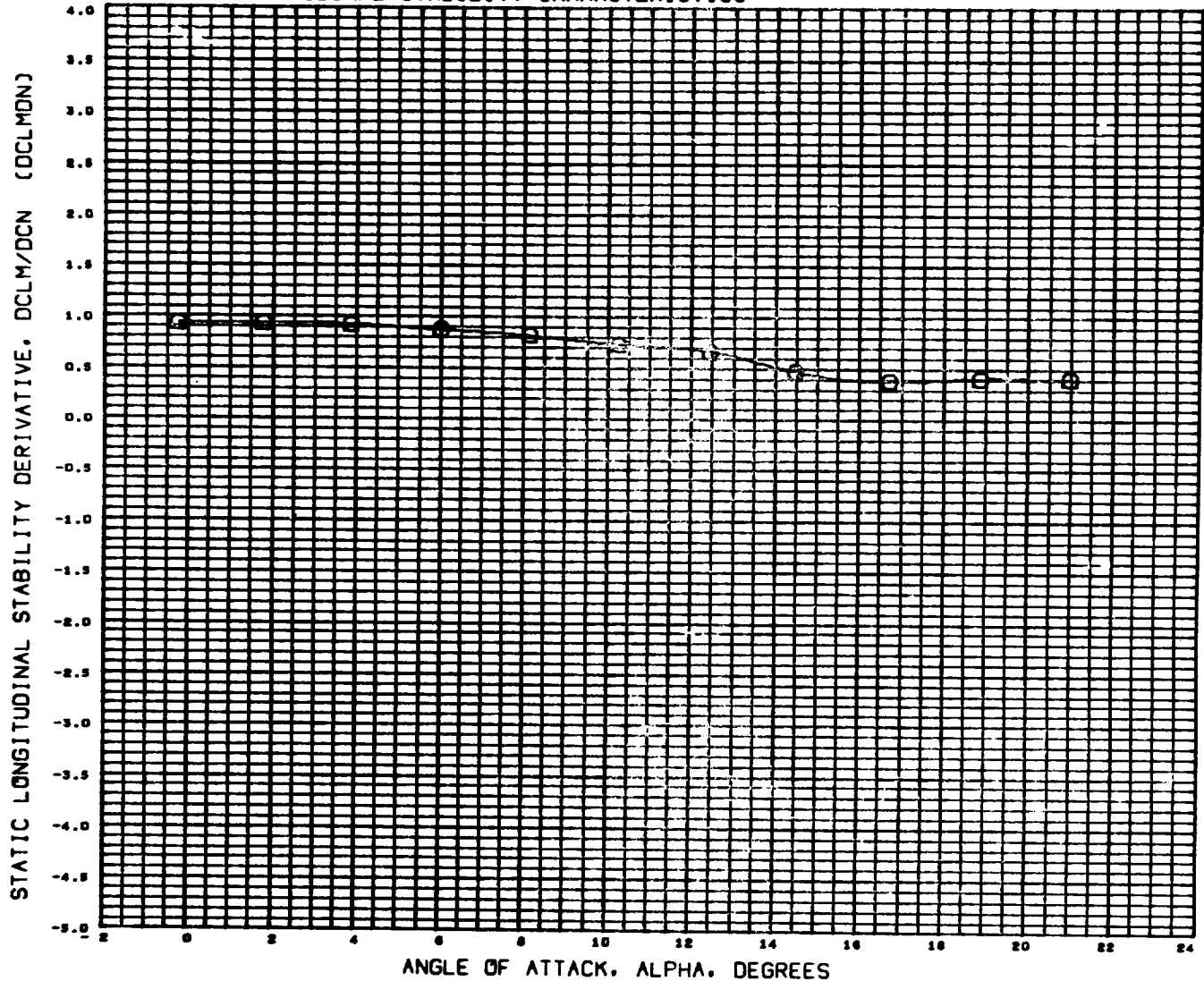
REFERENCE INFORMATION

SREF 4.6225 30. IN.
LREF 4.3000 IN.
SREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA M751 CODE 6V0E

M492-MSFC AR11901-1 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 15

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL \bigcirc MACH 1.957 BETA 0.000 CANARD 0.000

PARAMETRIC VALUES

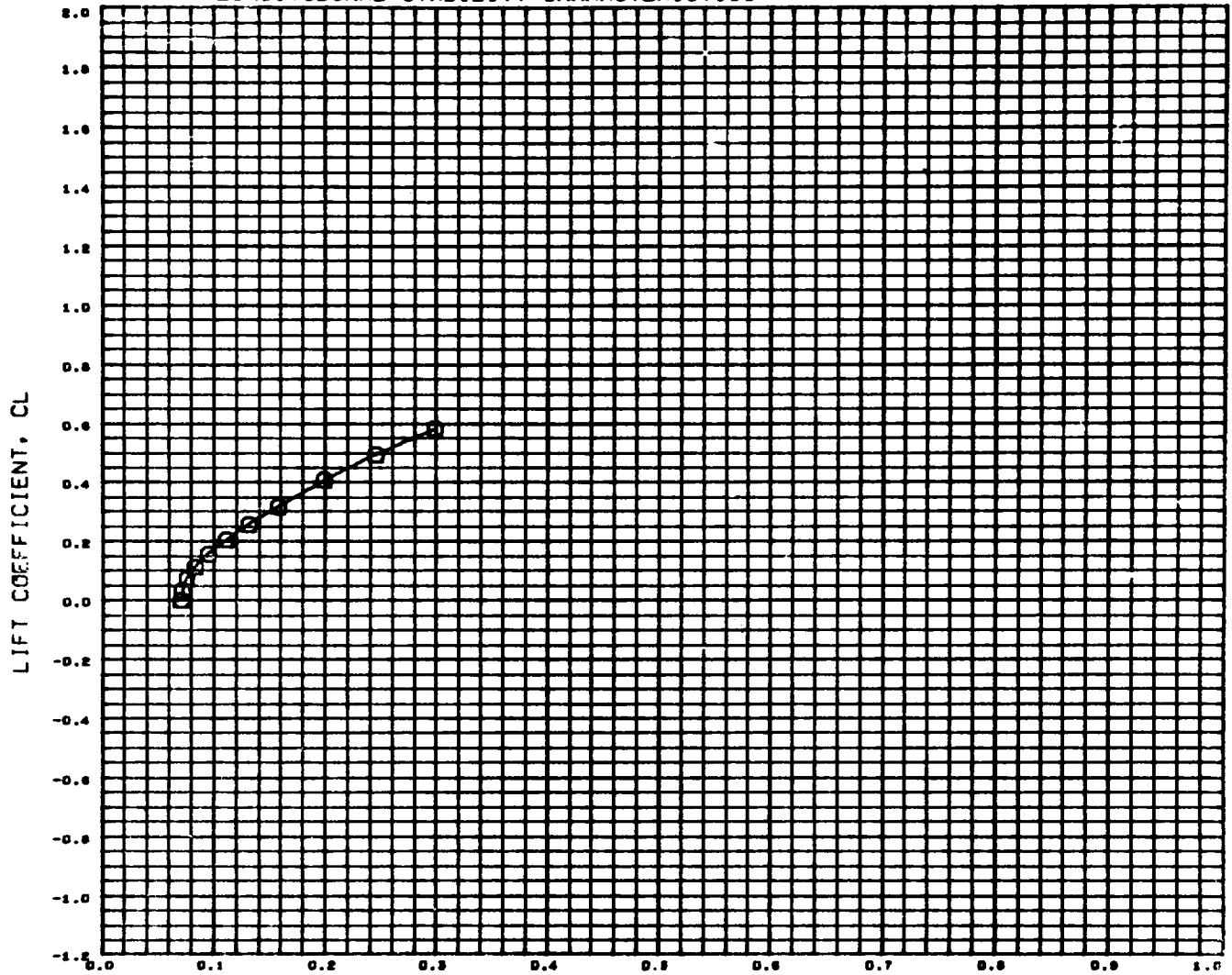
REFERENCE INFORMATION

SREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V9E

M492-MSFC AR11981-1 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 16

LONGITUDINAL STABILITY CHARACTERISTICS



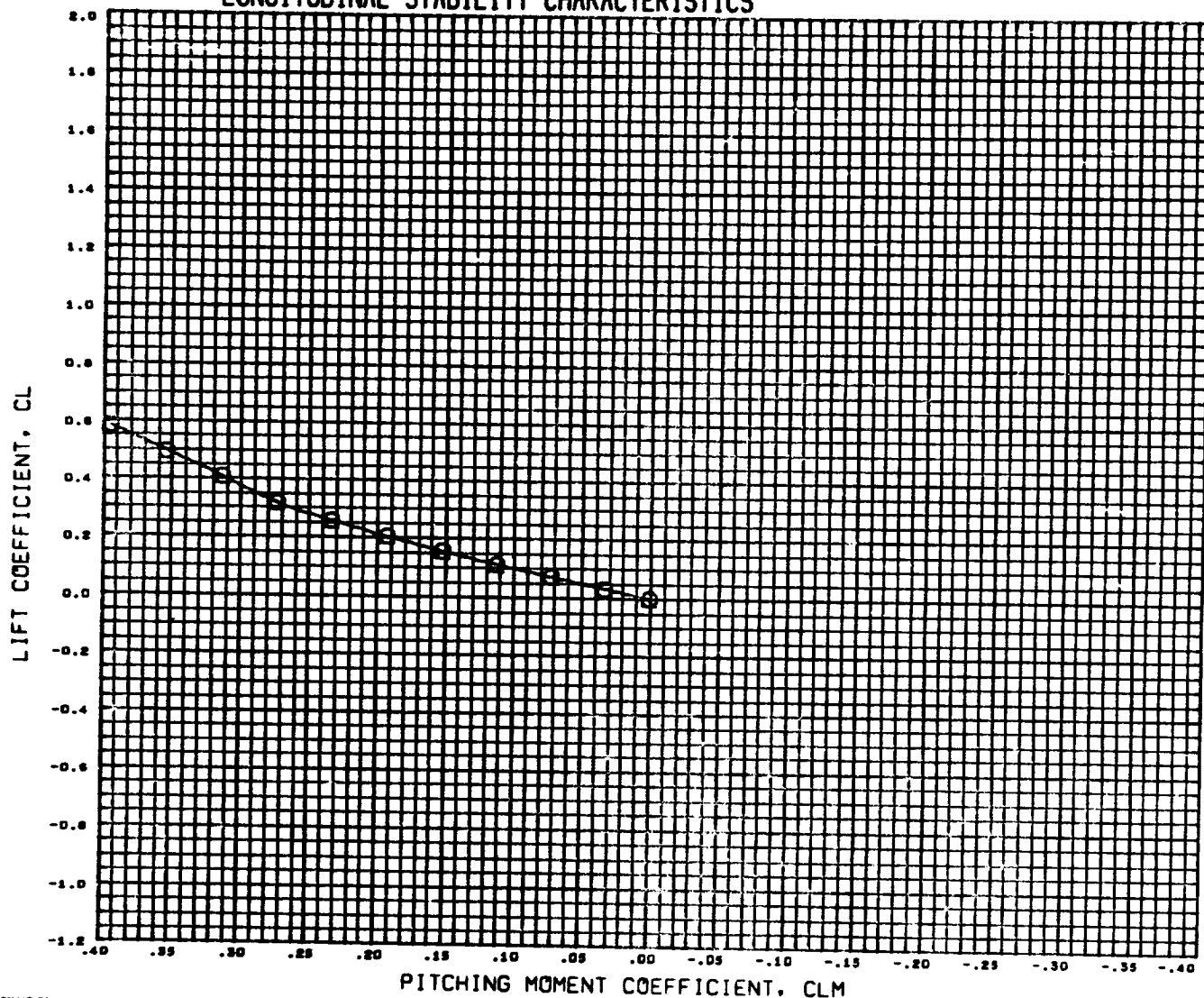
SYMBOL MACH PARAMETRIC VALUES
 O 1.957 BETA 0.000 CANARD 0.000

REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 SREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA MISS. CODE GVPE

M492-MSFC AR11981-1 MODEL B2C12 (E3402A) 24 AUG 71 PAGE 17

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL \square MACH 1.957 BETA 0.000 CANARD 0.000
 PARAMETRIC VALUES

REFERENCE INFORMATION
 SREF 4.6225 50 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC

AR11981-1

MODEL

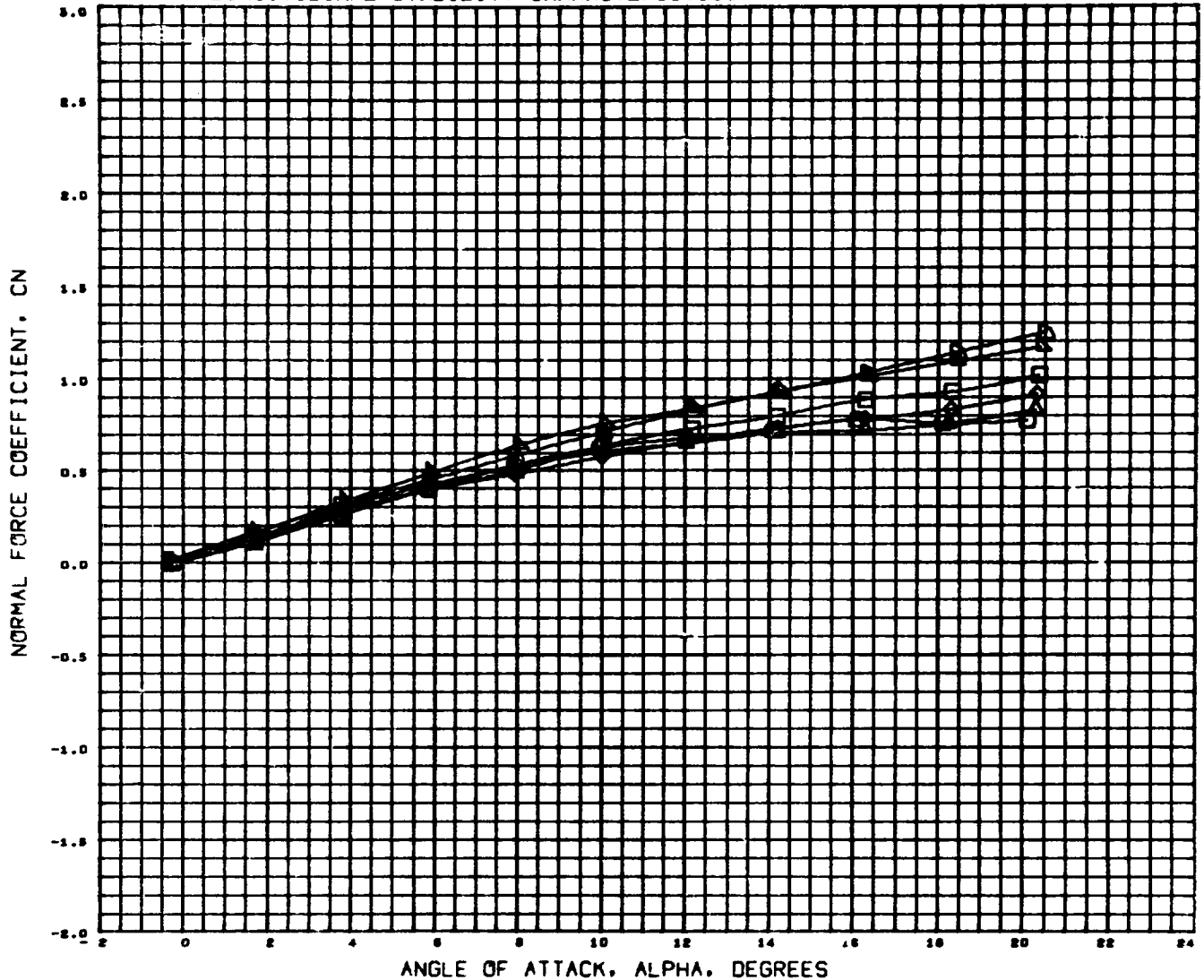
B2C12

(E3402A) 24 AUG 71

PAGE

18

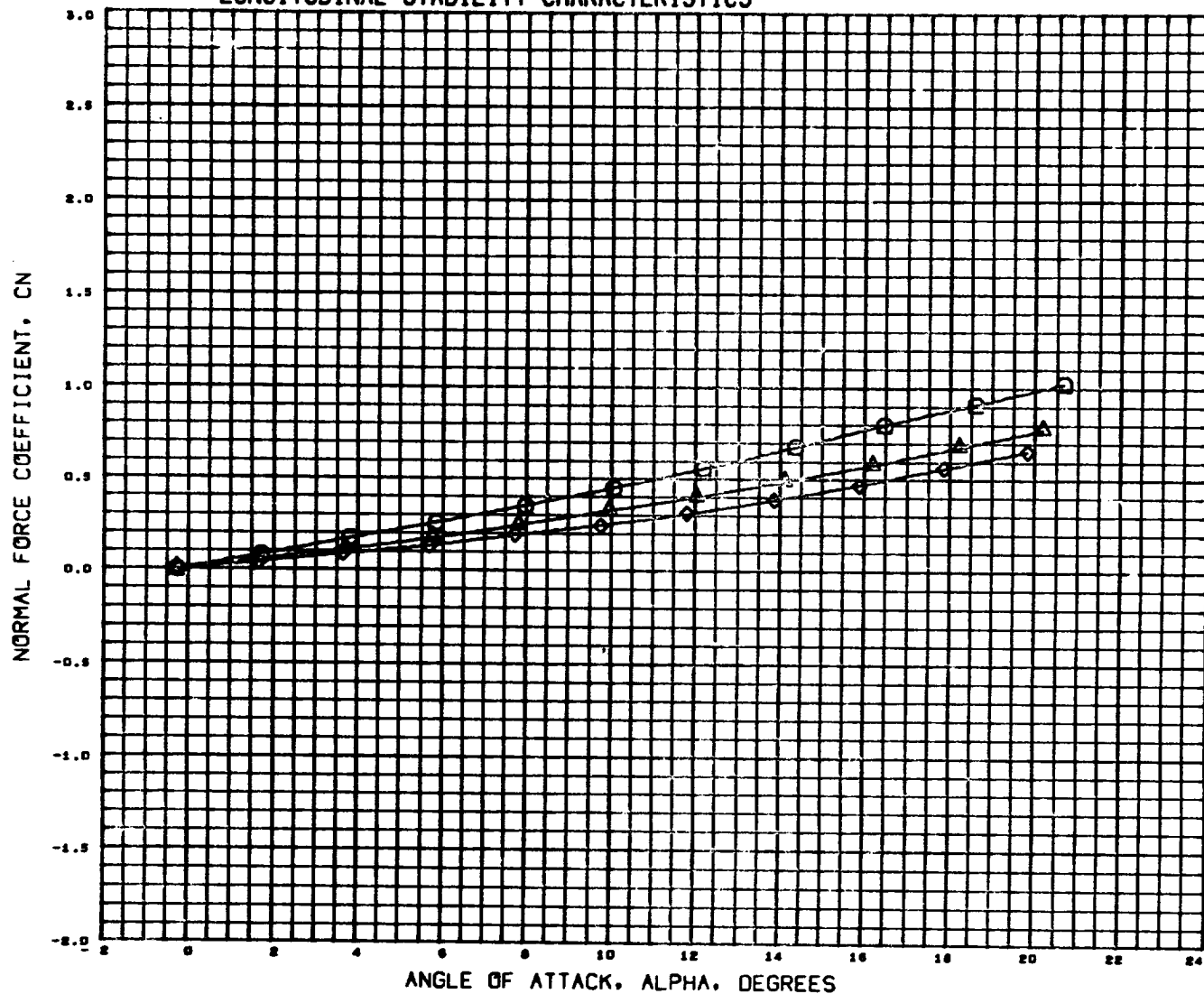
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		DATA	DEL	ELEVTR		SREF		
D □ ◇ △ ○	0.600	DATA	0.000	DEL	0.000	SREF	4.6225	60. IN.
	0.601	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
	0.606	AILRON	0.000			BREF	4.3000	IN.
	0.943					XNRP	2.4000	IN.
	0.994					YNRP	0.0000	IN.
	1.791	DATA HIST. CURF	CV4E			ZNRP	0.0000	IN.
						SCALE	0.0025	

M492-MSFC AR11917 1 MODEL B2W6 (E3403A) 24 AUG 71 PAGE 19

LONGITUDINAL STABILITY CHARACTERISTICS

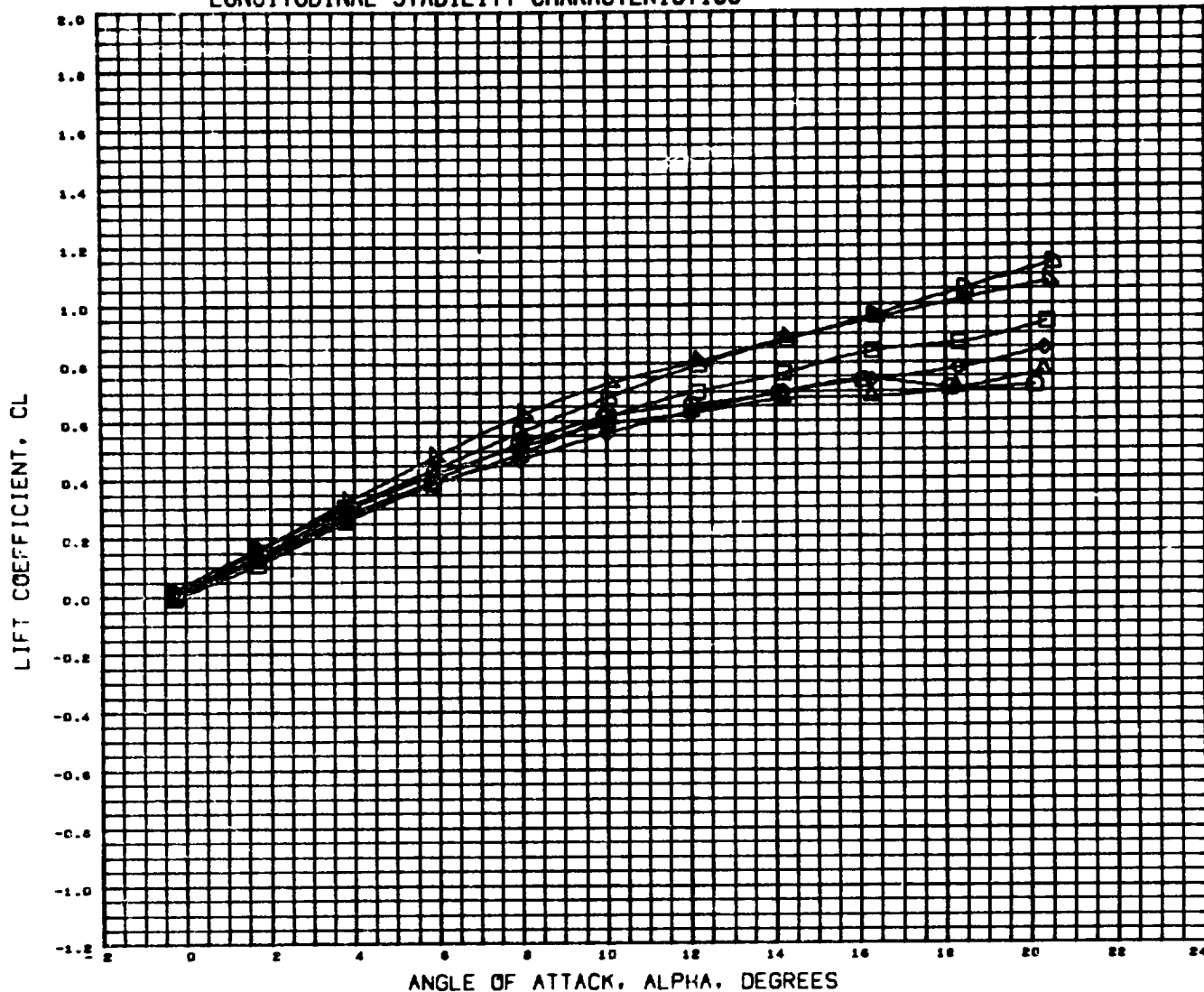


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	1.958	BETA	0.000	DEL	0.000	SREF	4.6225	30. IN.
△	3.480	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	4.959	AILRON	0.000			BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE GV0E

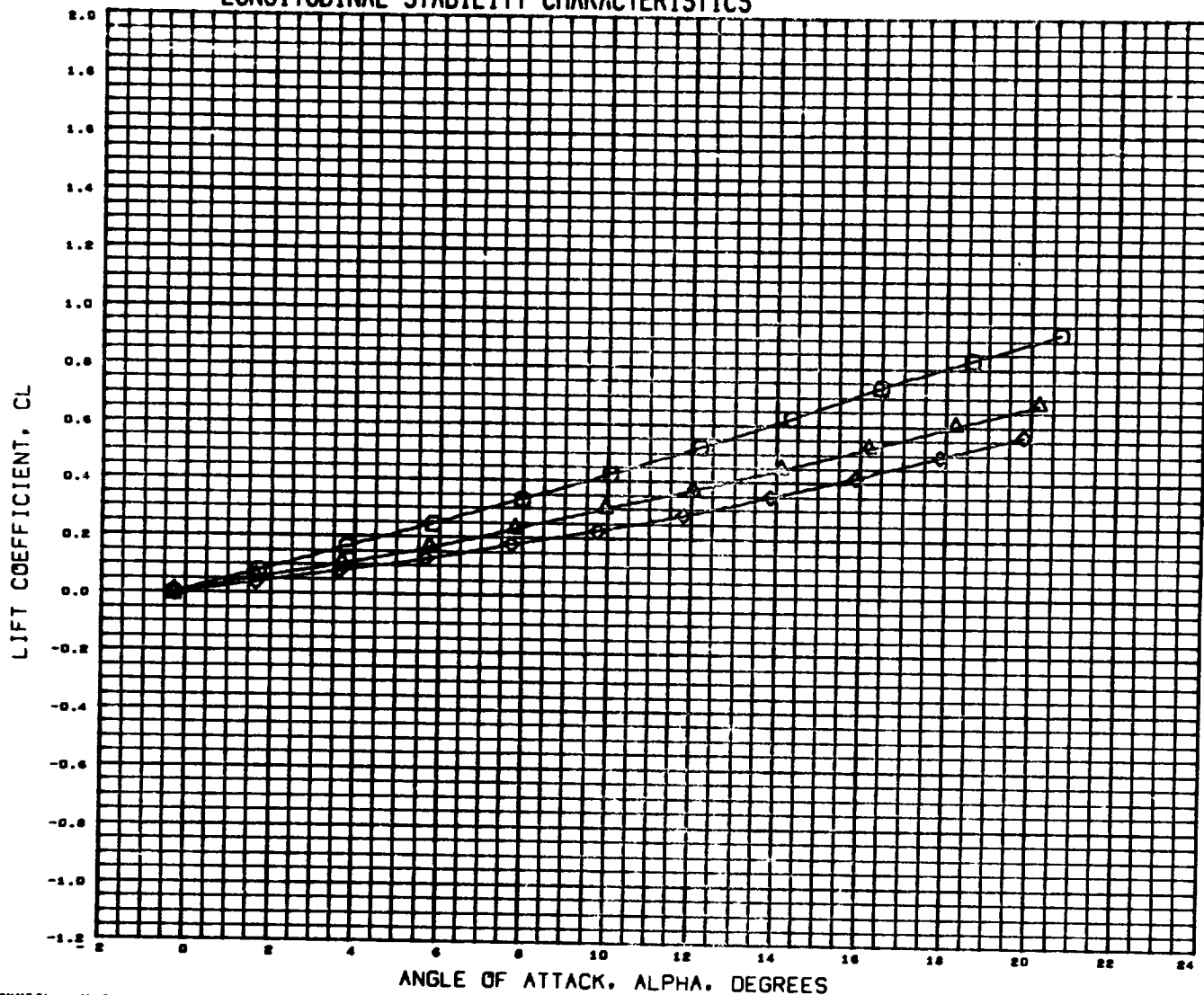
M492-MSFC AR1198I-1 MODEL B2W6 (E3403A) 24 AUG 71 PAGE 20

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR		SREF		
D A C C O N T R O L S	0.600	0.000	0.000	0.000		4.6225	88. IN.	
	0.800	0.000	0.000	0.000		4.3000	IN.	
	0.896	0.000	0.000	0.000		4.3000	IN.	
	0.943					2.4000	IN.	
	0.990					0.0000	IN.	
	1.191					0.0000	IN.	
DATA HIST. COM.		GVCL				SCALE	0.0025	
M492-MSFC		AR11981-1		MODEL		B2W6		
				(E3403A)		24 AUG 71		
				PAGE		21		

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.956	BETA	0.000	DEL	0.000
△	3.480	DER	0.000	ELEVTR	0.000
◇	4.959	AILRON	0.000		

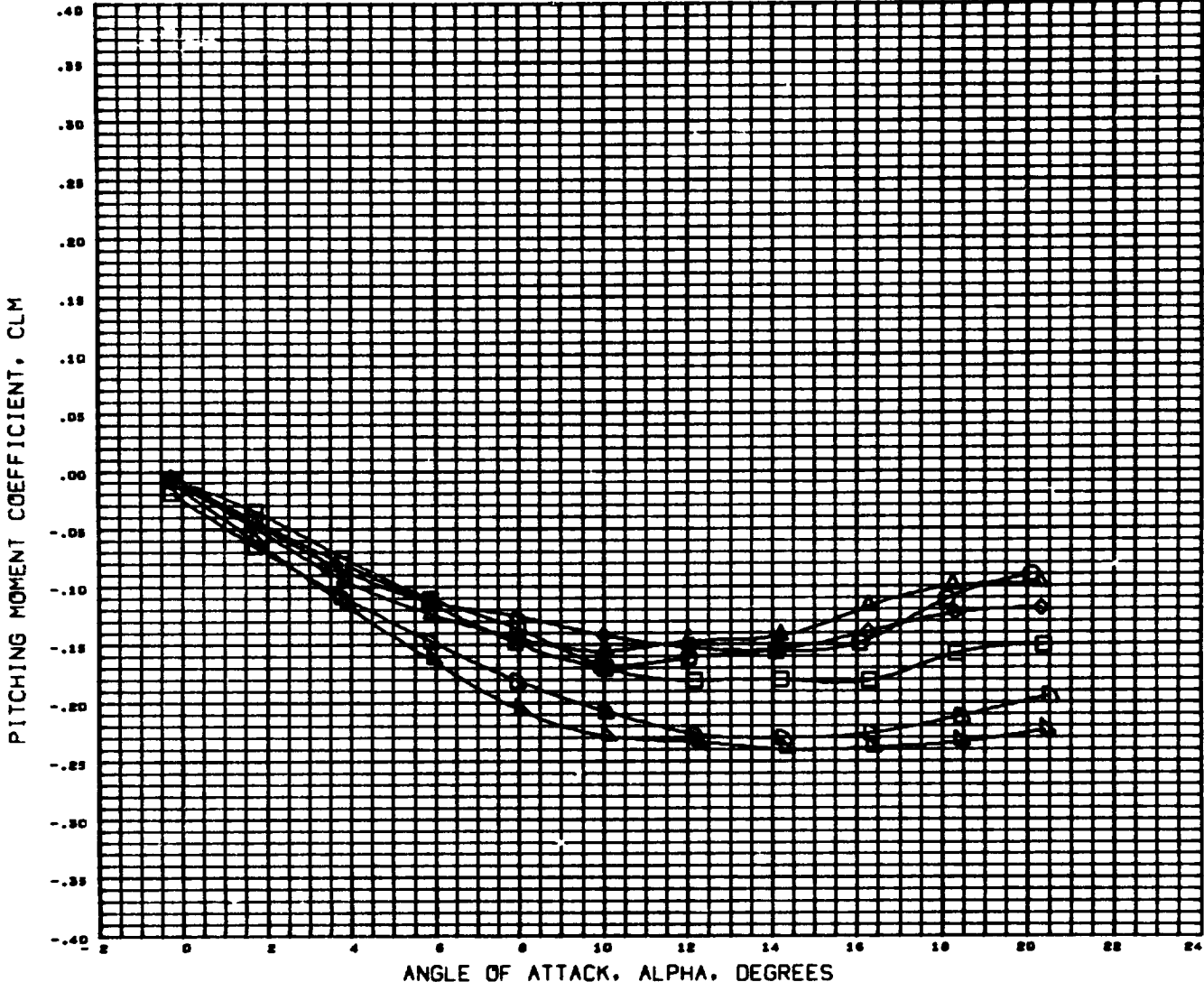
REFERENCE INFORMATION		
SREF	4.6225	58. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	IN.

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6

(E3403A) 24 AUG 71 PAGE 22

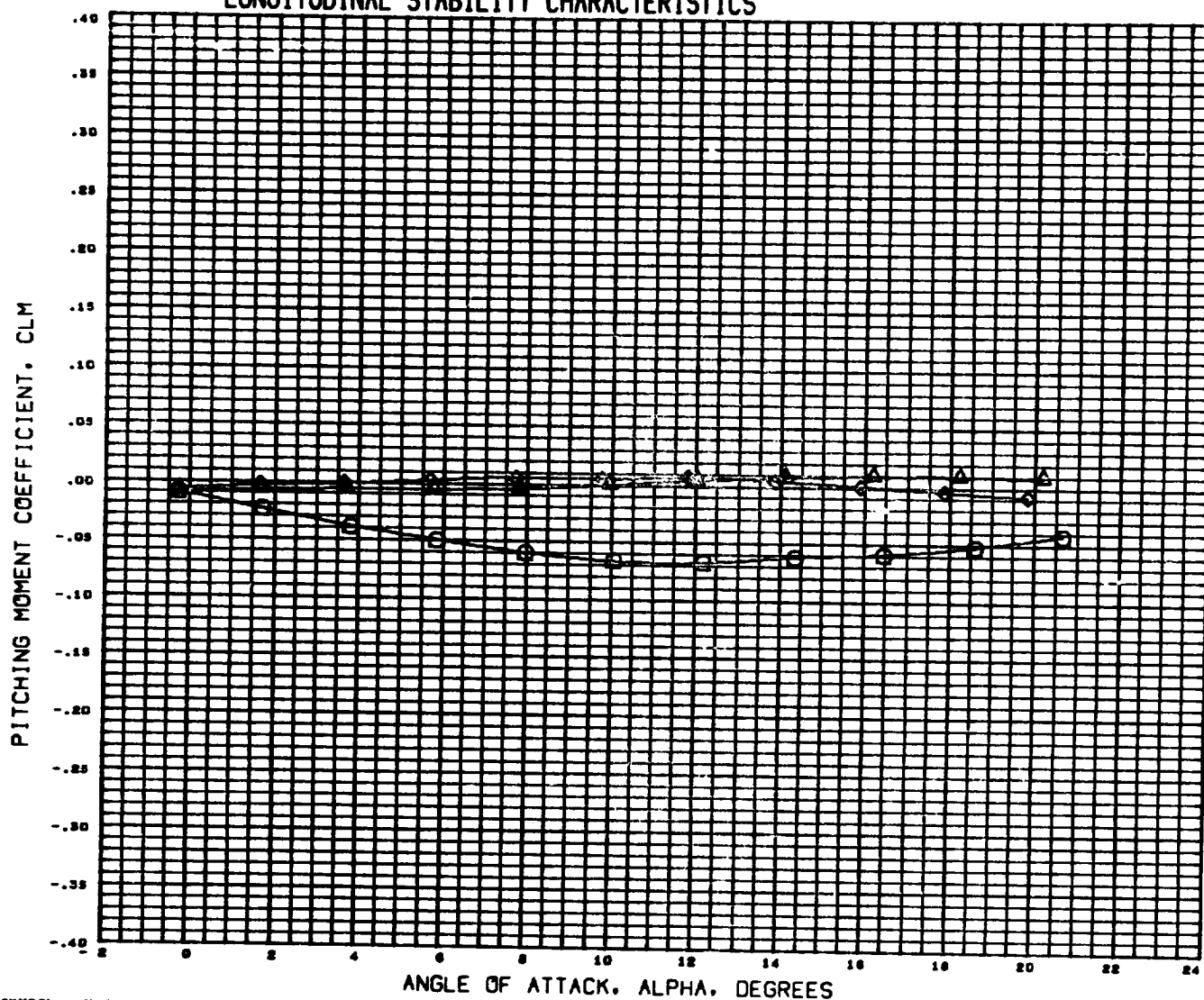
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL		PARAMETRIC VALUES				REFERENCE INFORMATION		
	0.000	BETA	0.000	DEL	0.000	BREF	4.6223	80. IN.
	0.001	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
	0.008	AILRON	0.000			BREF	4.3000	IN.
	0.943					ZHRP	8.4000	IN.
	0.996					YHRP	0.0000	IN.
	1.191					ZHRP	0.0000	IN.
	1.191	DATA HIAT. CODE	CVPE			SCALE	0.0028	

23

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
△	1.959	BETA	0.000	DEL	0.000
○	3.400	DER	0.000	ELEVTR	0.000
◇	4.939	AILRON	0.000		

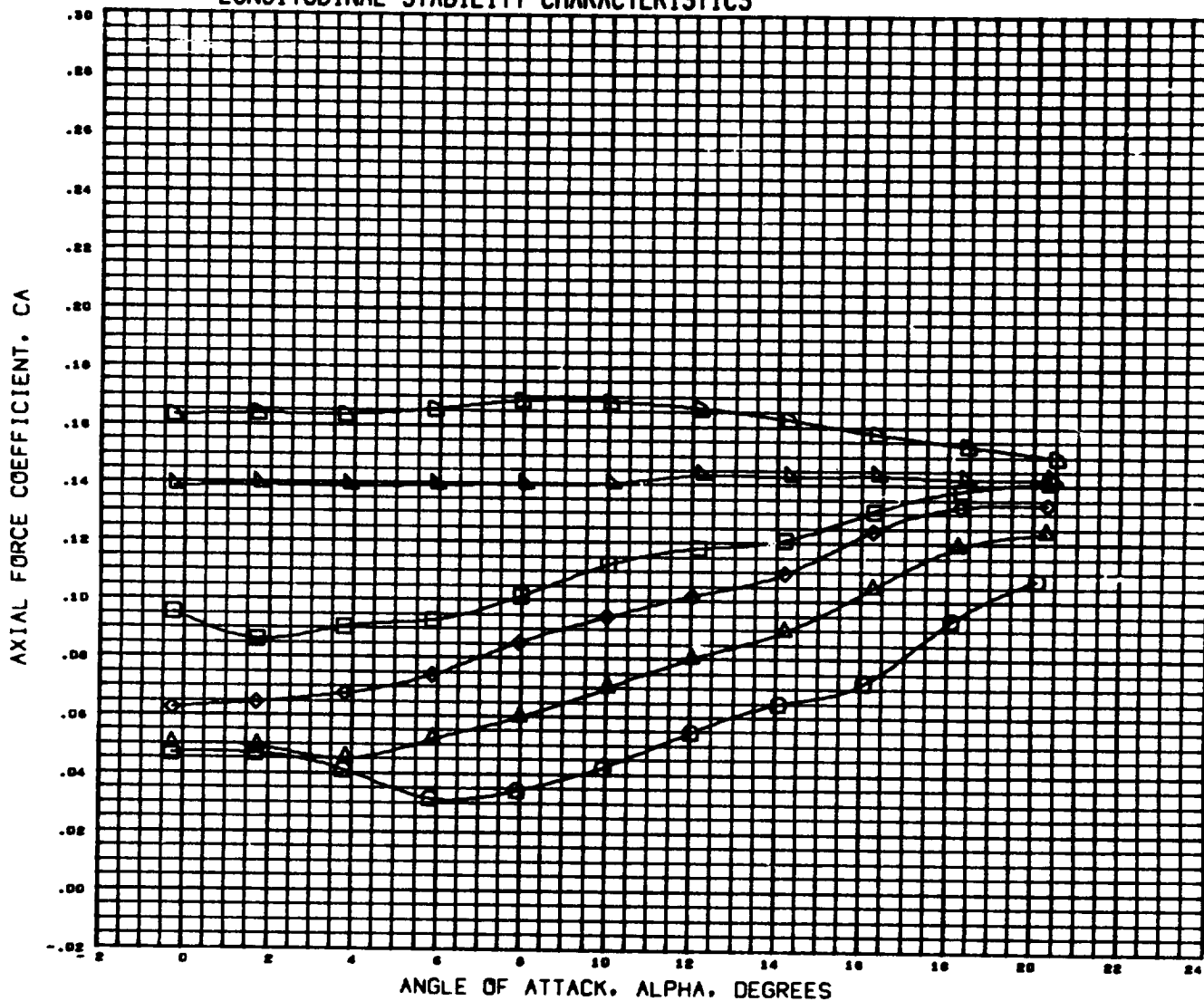
REFERENCE INFORMATION		
SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE GV0E

M492-MSFC AR11981-1 MODEL B2W6

(E3403A) 24 AUG 71 PAGE 24

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	0.600	BETA	0.000	DEL	0.000
◇	0.801	DER	0.000	ELEVTR	0.000
□	0.898	AILRON	0.000		
△	0.943				
▽	0.996				
×	1.191	DATA HIST. CODE	GV0E		

REFERENCE INFORMATION		
OREF	4.6225	80. IN.
LREF	4.3000	IN.
OREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	IN.

M492-MSFC

AR11981-1

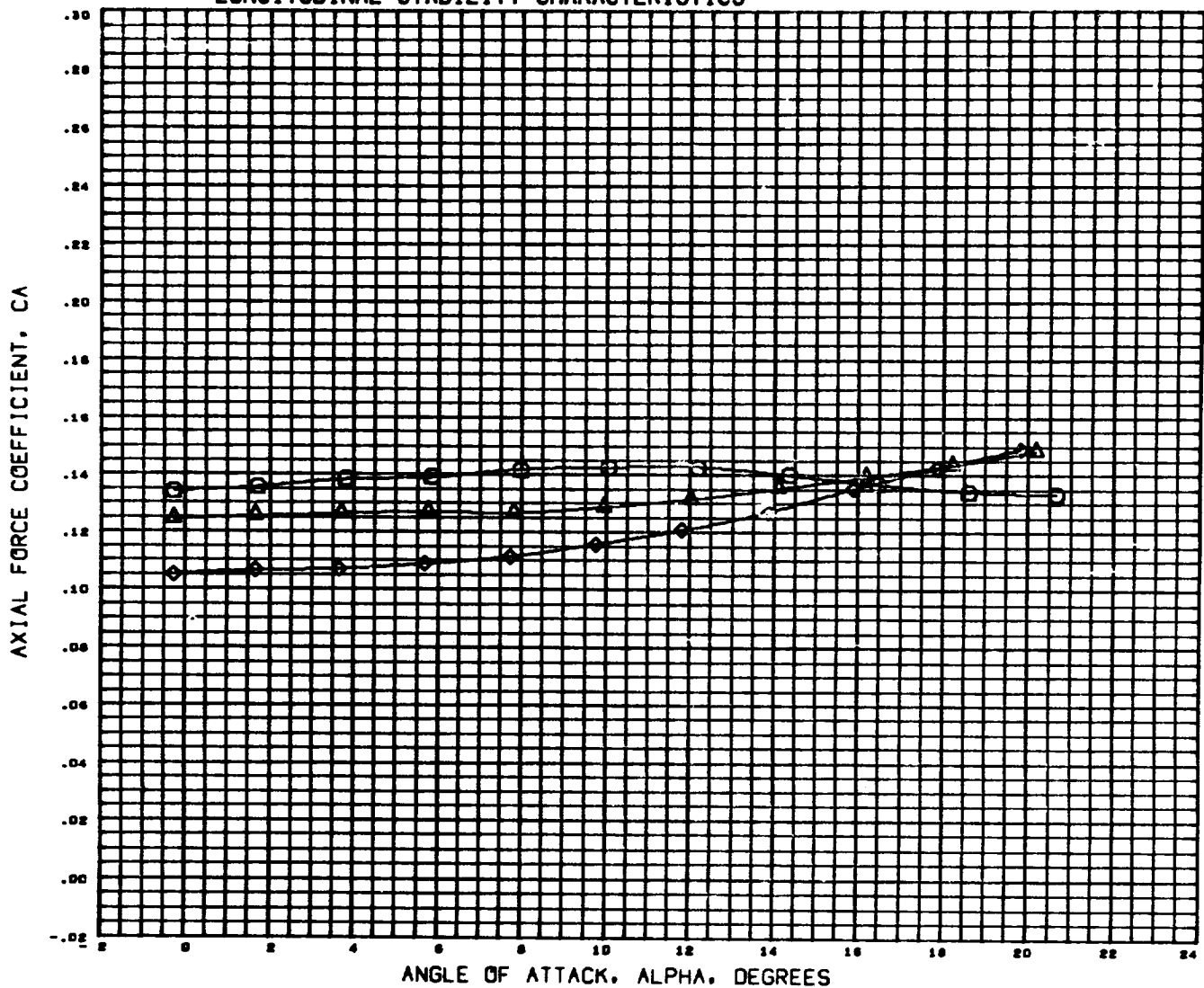
MODEL

B2W6

(E3403A) 24 AUG 71

PAGE 25

LONGITUDINAL STABILITY CHARACTERISTICS



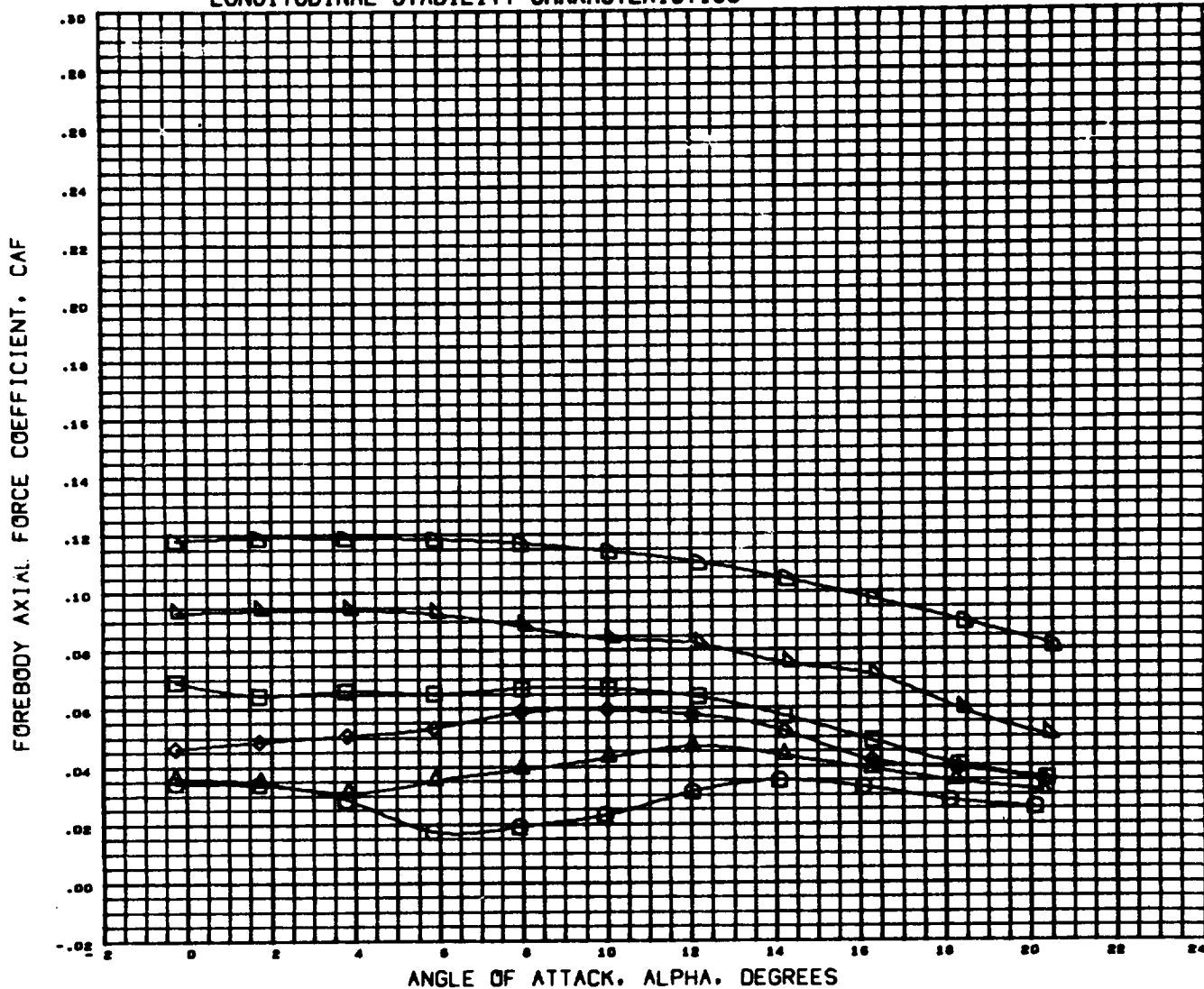
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.958	BETA	0.000	DEL	0.000
△	3.480	DER	0.000	ELEVTR	0.000
◇	4.958	AILRON	0.000		

REFERENCE INFORMATION		
SREF	4.6225	sq. in.
LREF	4.3000	in.
BREF	4.3000	in.
XMRP	2.4000	in.
YMRP	0.0000	in.
ZMRP	0.0000	in.
SCALE	0.0025	

DATA HIST. CODE 6V+E

M492-MSFC AR11981-1 MODEL B2W6 (E3403A) 24 AUG 71 PAGE 26

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
D	0.600	BETA	0.000	DEL	0.000	SREF	4.6225	50. IN.
	0.801	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
	0.898	AILRON	0.000			BREF	4.3000	IN.
	0.943					XNRP	2.4000	IN.
	0.986					YNRP	0.0000	IN.
1.191						ZNRP	0.0000	IN.
		DATA MIST. CODE	6VPE			SCALE	0.0025	

M492-MSFC

AR11981-1

MODEL

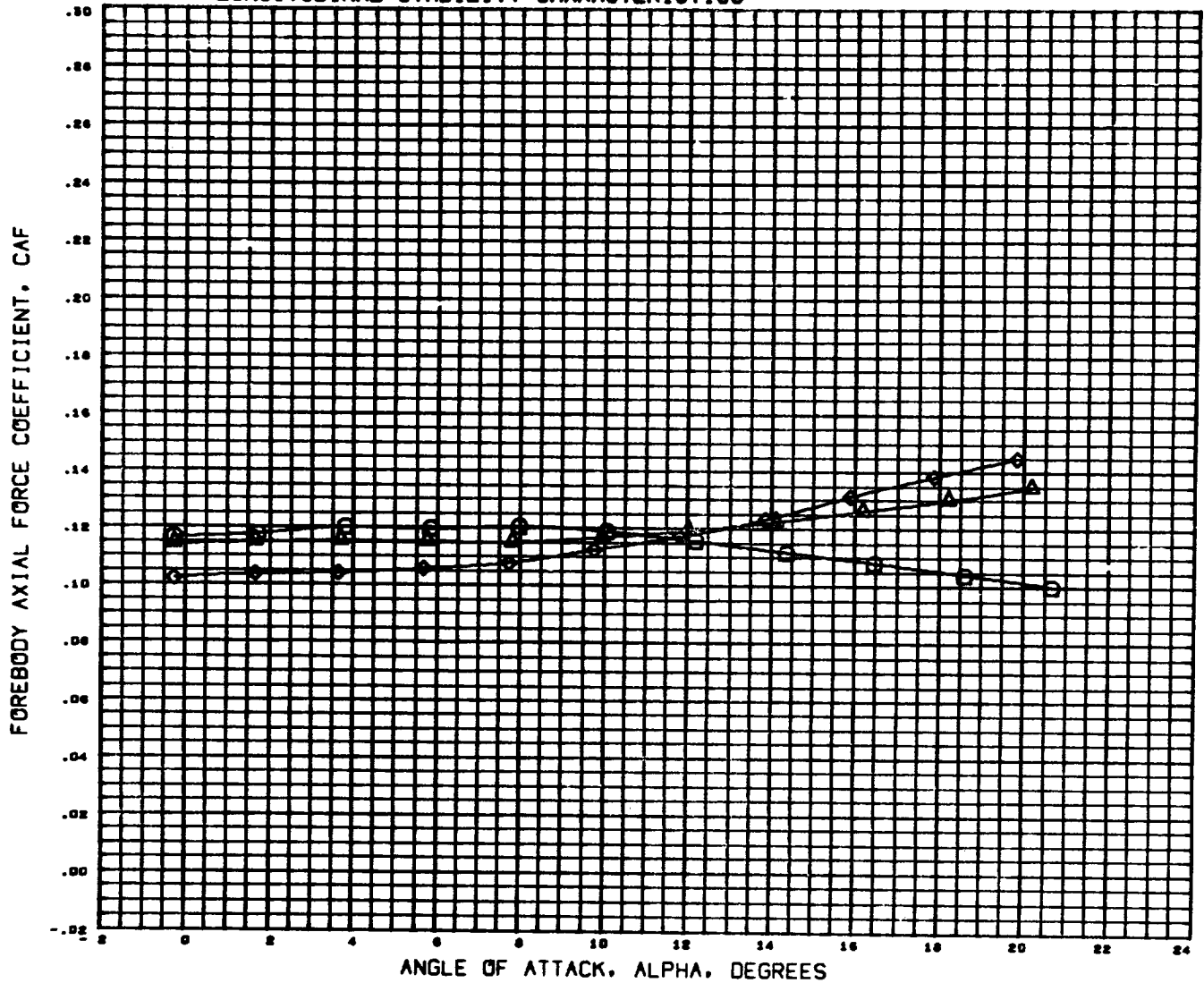
B2W6

(E3403A) 24 AUG 71

PAGE

27

LONGITUDINAL STABILITY CHARACTERISTICS

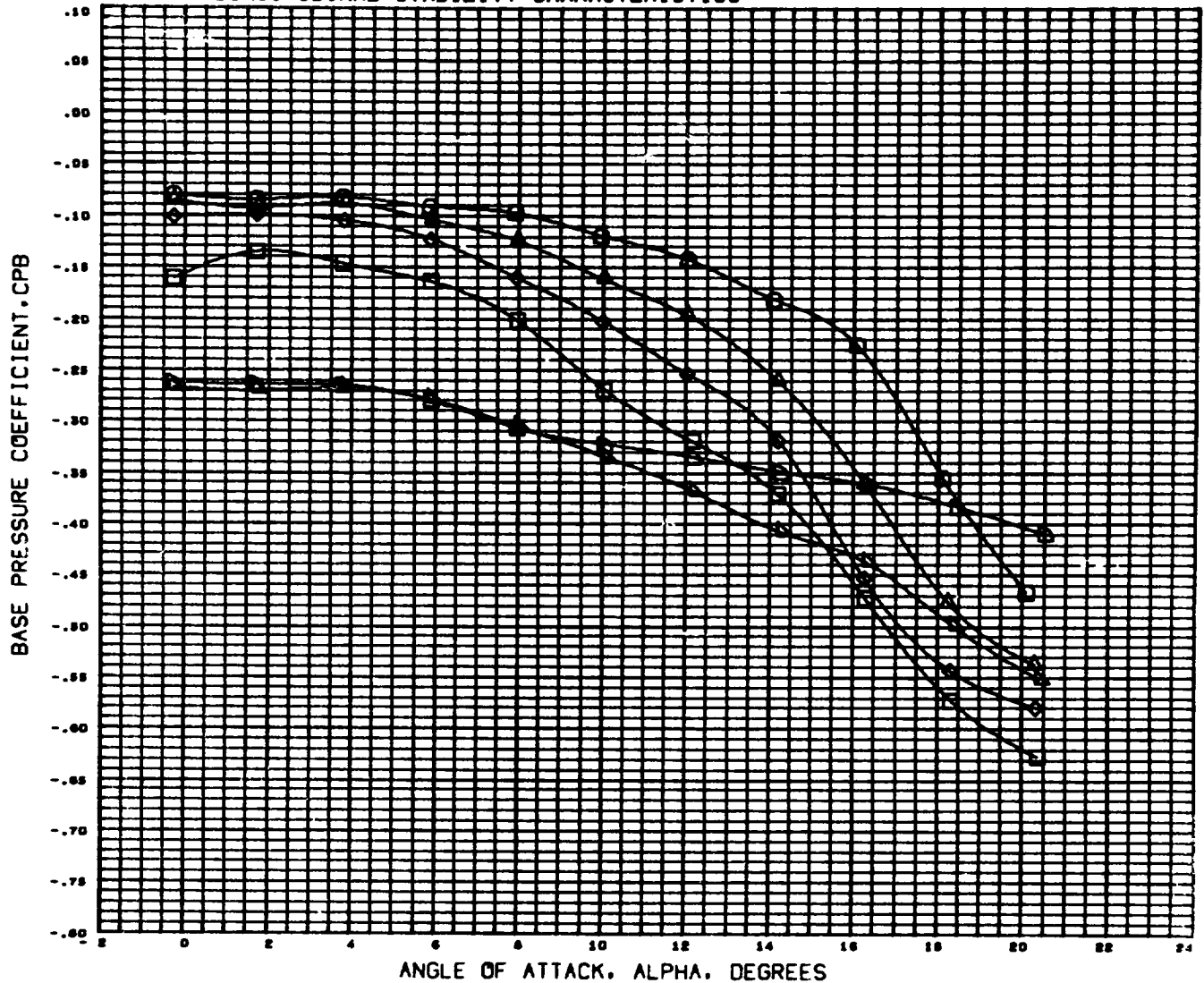


SYMBOL □ △ ◇	MACH	PARAMETRIC VALUES			
	1.958	BETA	0.000	DEL	0.000
	3.488	DER	0.000	ELEVTR	0.000
	4.939	AILRON	0.000		

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

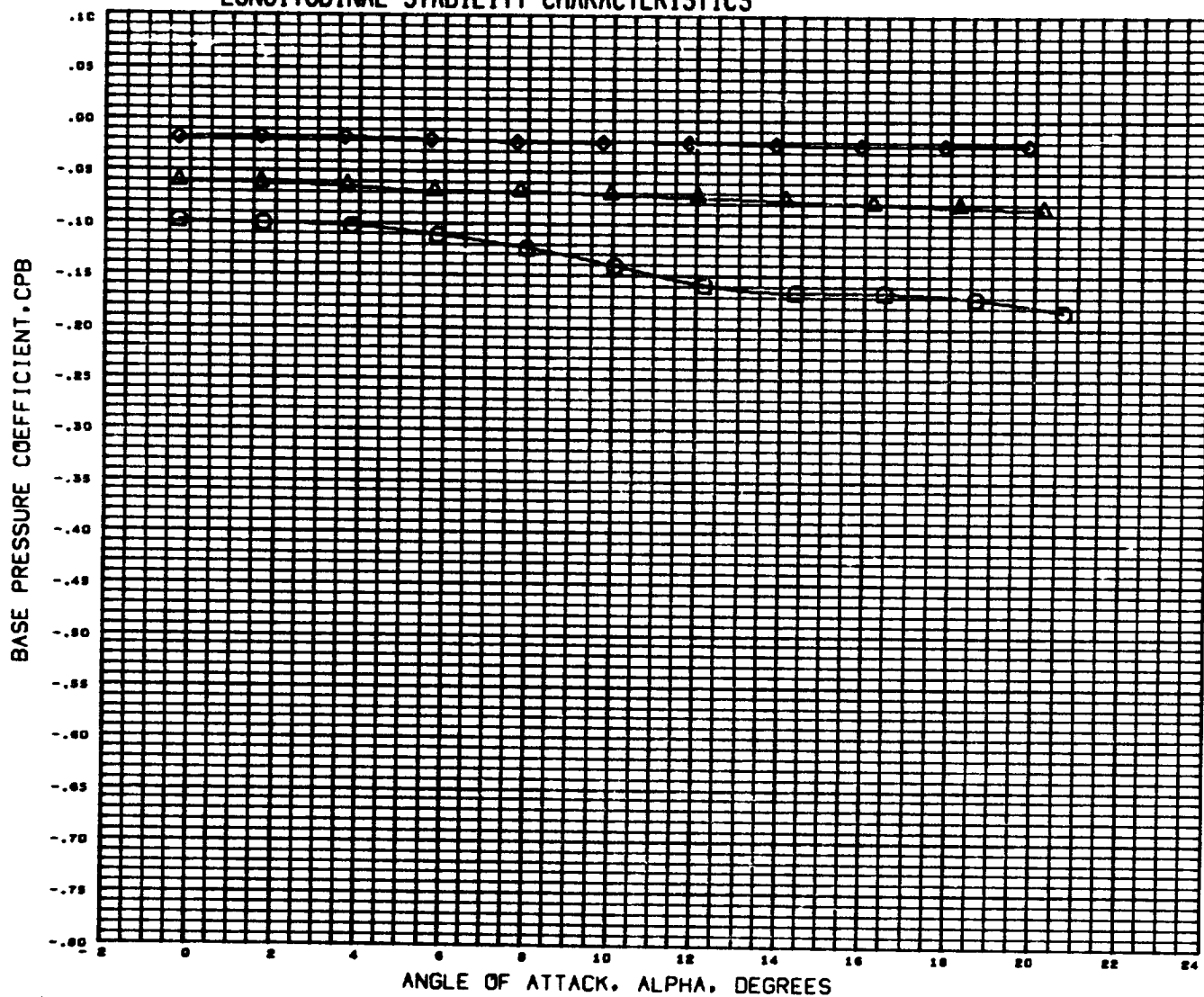
DATA HIST. CODE 6V9E

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR		BREF	LREF	XREF
0.600	0.600	0.000	0.000	0.000		4.6225	4.3000	4.3000
0.801	0.801	0.000	0.000	0.000		4.3000	4.3000	4.3000
0.899	0.899	0.000	0.000	0.000		4.3000	4.3000	4.3000
0.943	0.943					4.3000	4.3000	4.3000
0.996	0.996					4.3000	4.3000	4.3000
1.191	1.191					4.3000	4.3000	4.3000
		DATA HIST. CODE	CVSE			SCALE	0.0025	
M492-MSFC	AR11861-1	MODEL	B2W6	(E3403A)	24 AUG 71	PAGE	29	

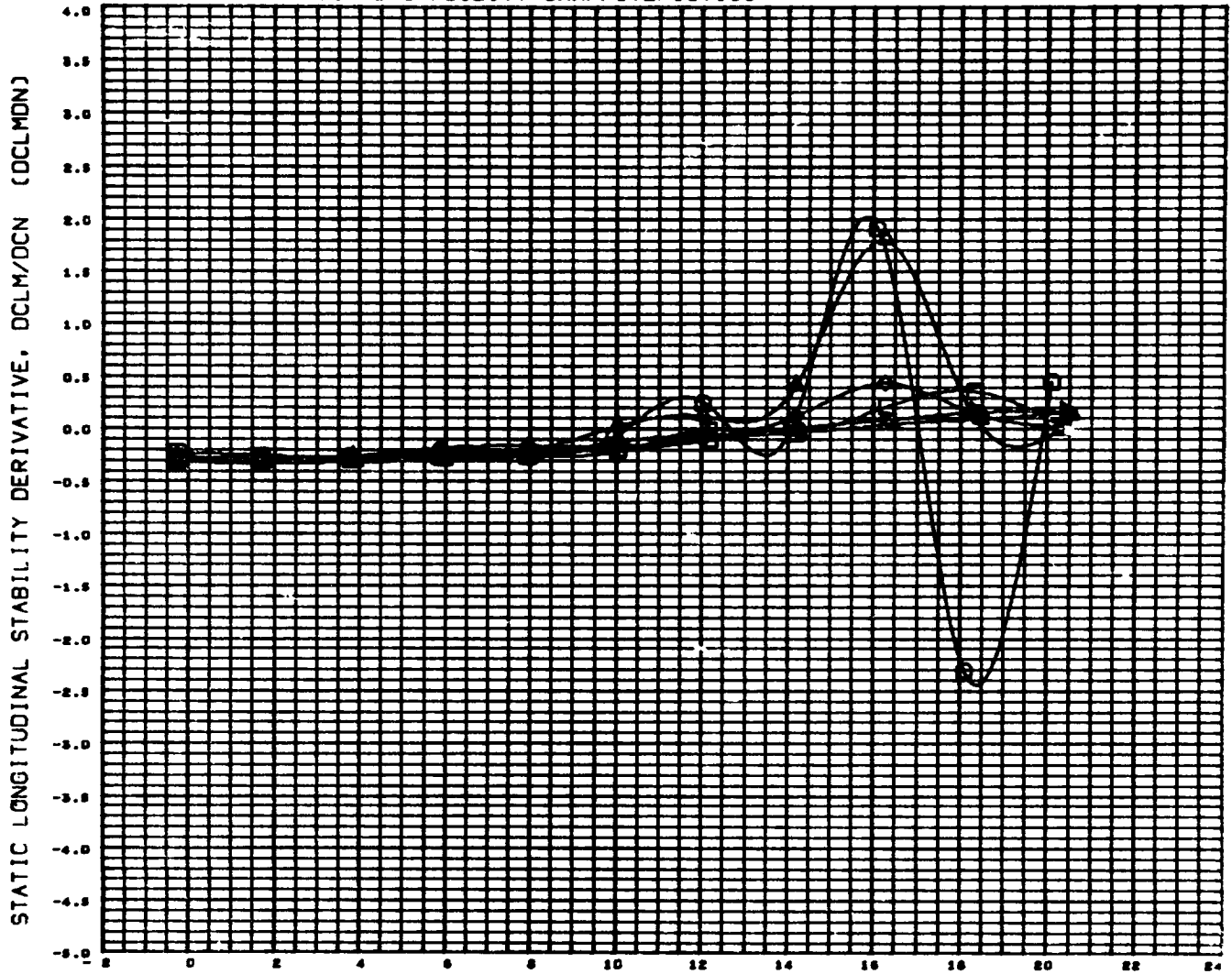
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL		PARAMETRIC VALUES				REFERENCE INFORMATION		
◇	MACH	BETA	DEL	ELEVTR		SREF	4.6225	30. IN.
△	3.480	DER	0.000	0.000		LREF	4.3000	IN.
□	4.959	AILRON	0.000			BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

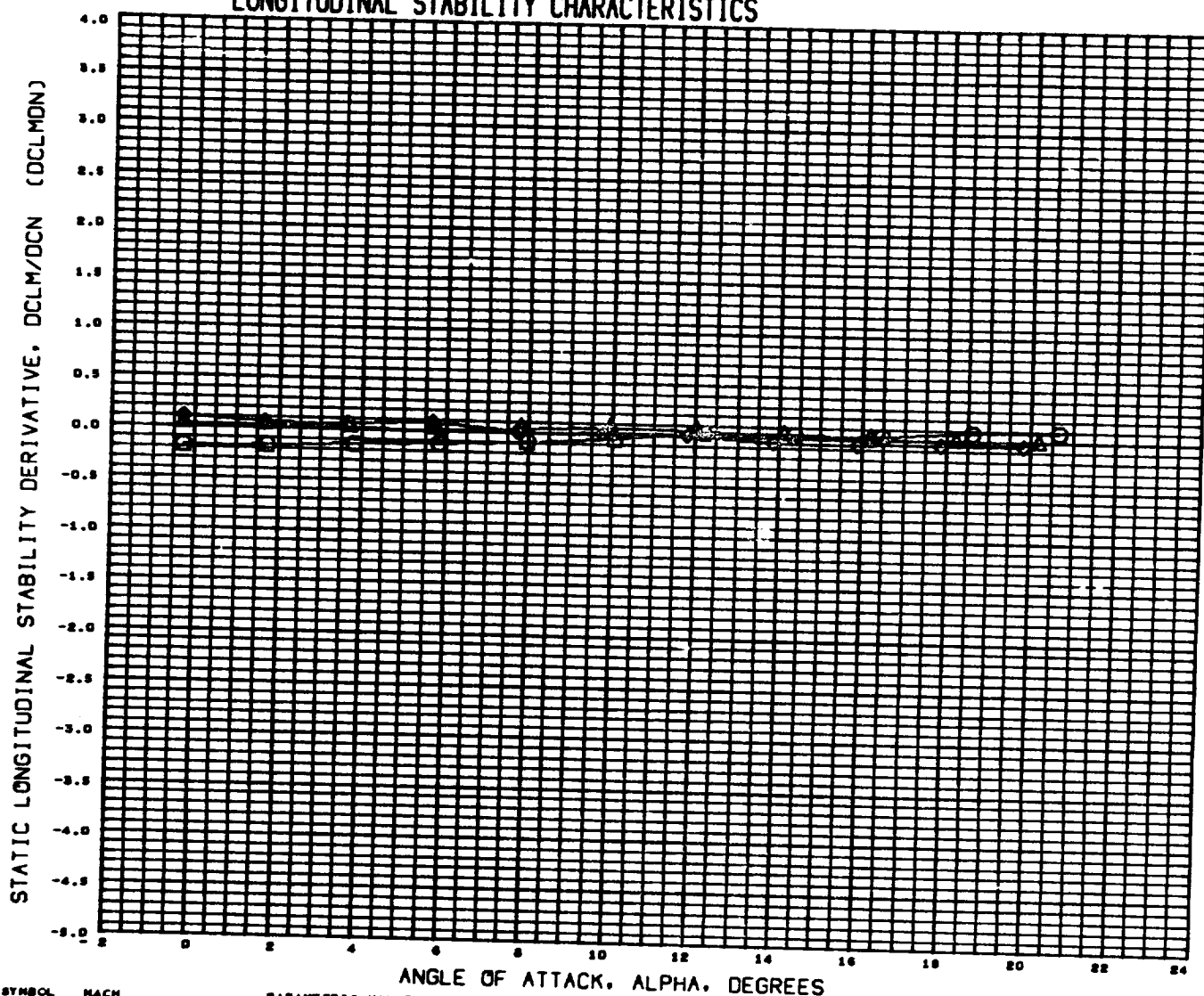
DATA HIST. CODE 6V0E

LONGITUDINAL STABILITY CHARACTERISTICS



PARAMETRIC VALUES		REFERENCE INFORMATION	
BYKBOC	MACH	SREF	4.6225
0.600	BETA	LREF	4.3000
0.001	DER	BREF	4.3000
0.000	AILRON	XMRP	2.4000
0.000		YMRP	0.0000
0.000		ZMRP	0.0000
0.000		SCALE	0.0025
DATA HIST. CODE	6V0E		

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
◇	1.958	BETA	0.000	DEL	0.000
◇	3.400	DER	0.000	ELEVTR	0.000
◇	4.959	AILRON	0.000		

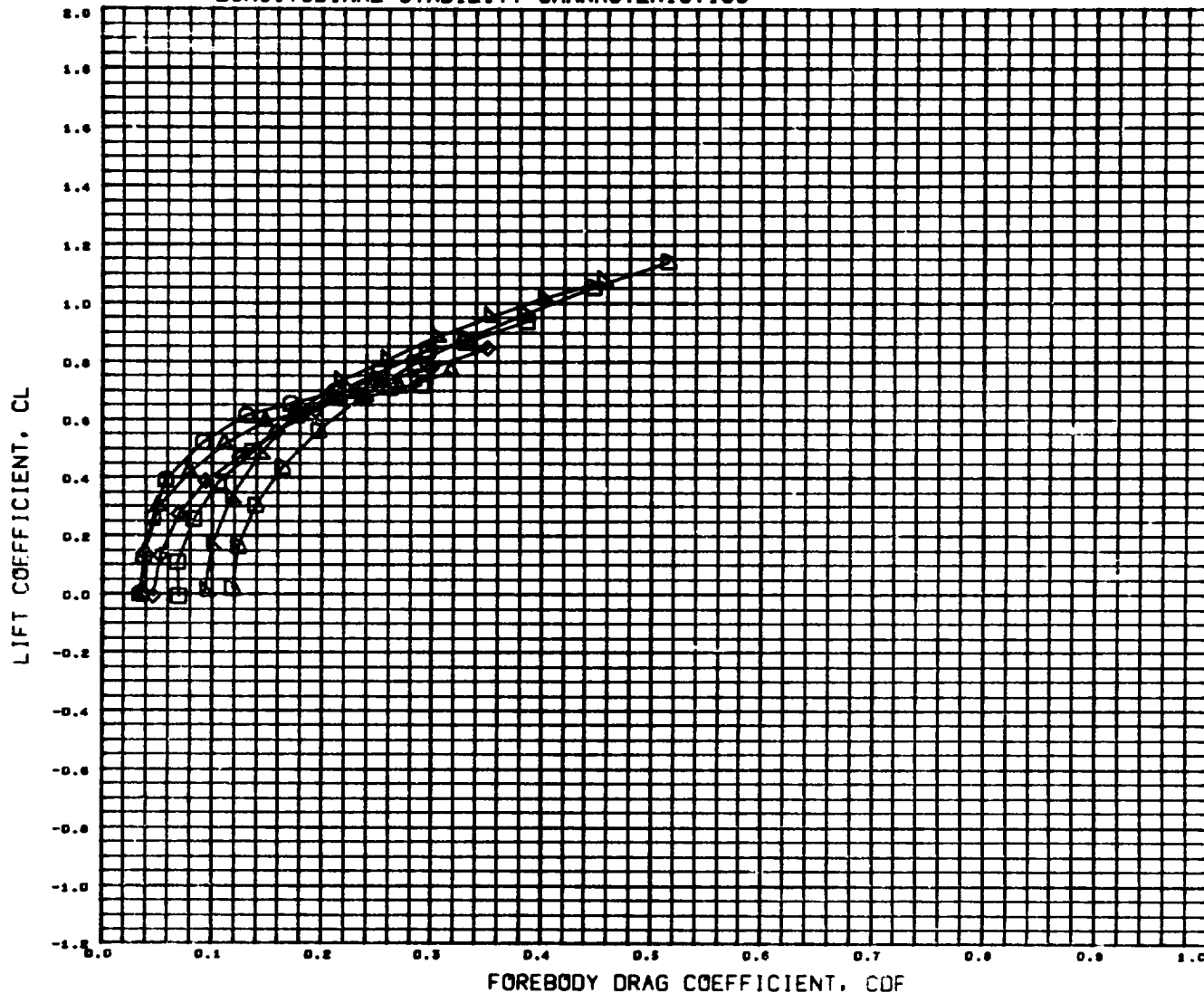
REFERENCE INFORMATION		
SREF	4.6225	sq. in.
LREF	4.3000	in.
BREF	4.3000	in.
XMRP	2.4000	in.
YMRP	0.0000	in.
ZMRP	0.0000	in.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6

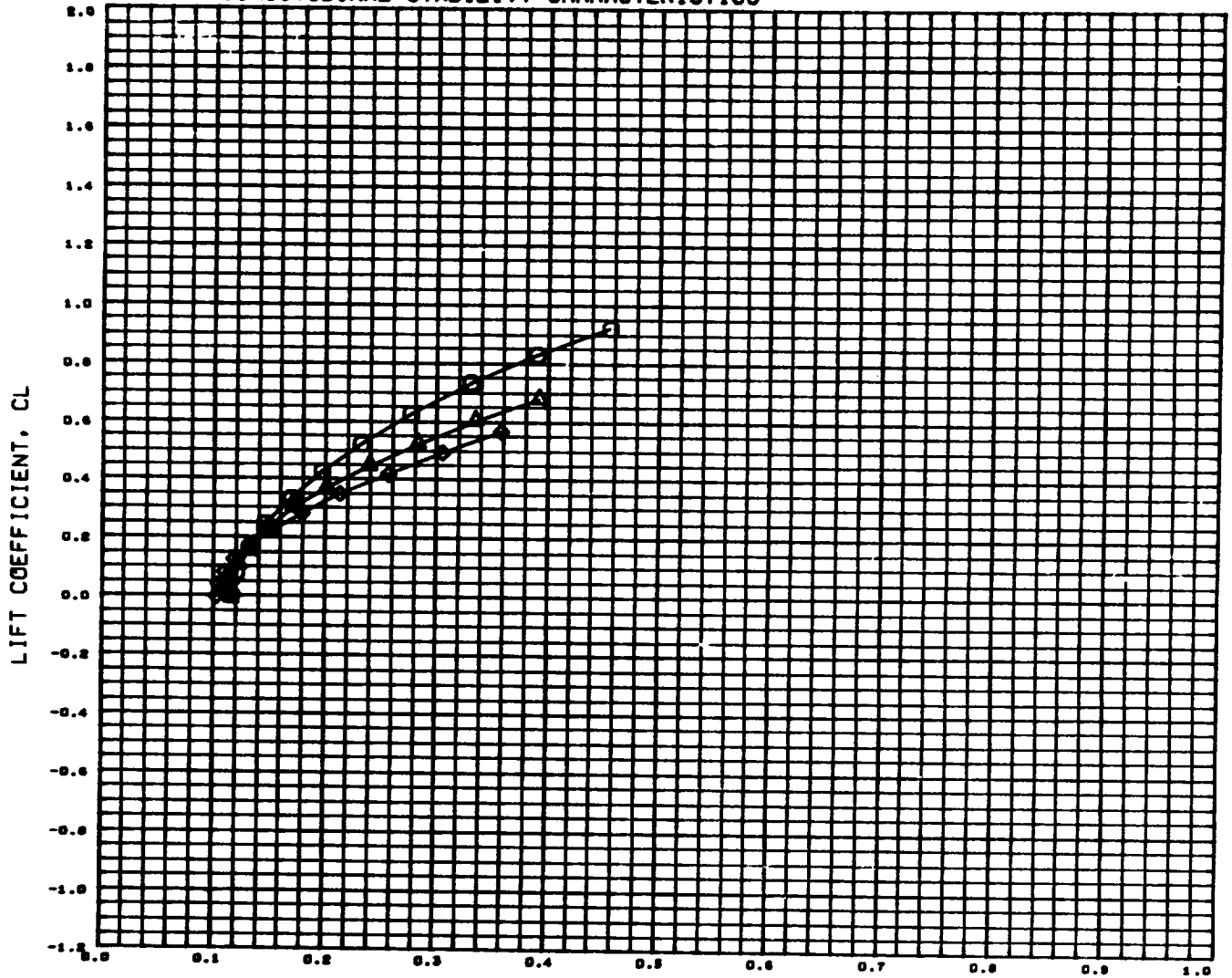
(E3403A) 24 AUG 71 PAGE 32

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
<div> <div> <div>○</div> <div>◇</div> <div>△</div> <div>□</div> <div>▽</div> <div>◇</div> <div>○</div> </div> </div>	0.600	BETA	0.000	DEL	0.000	SREF	4.6225	80.1N.
	0.841	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
	0.898	AILRON	0.000			BREF	4.3000	IN.
	0.943					XMRP	2.4000	IN.
	0.996					YMRP	0.0000	IN.
	1.191					ZMRP	0.0000	IN.
		DATA HIST. CODE	6V8E			SCALE	0.0025	
M492-MSFC	AR11981-1	MODEL	B2W6	(E3403A)	24 AUG 71	PAGE	33	

LONGITUDINAL STABILITY CHARACTERISTICS



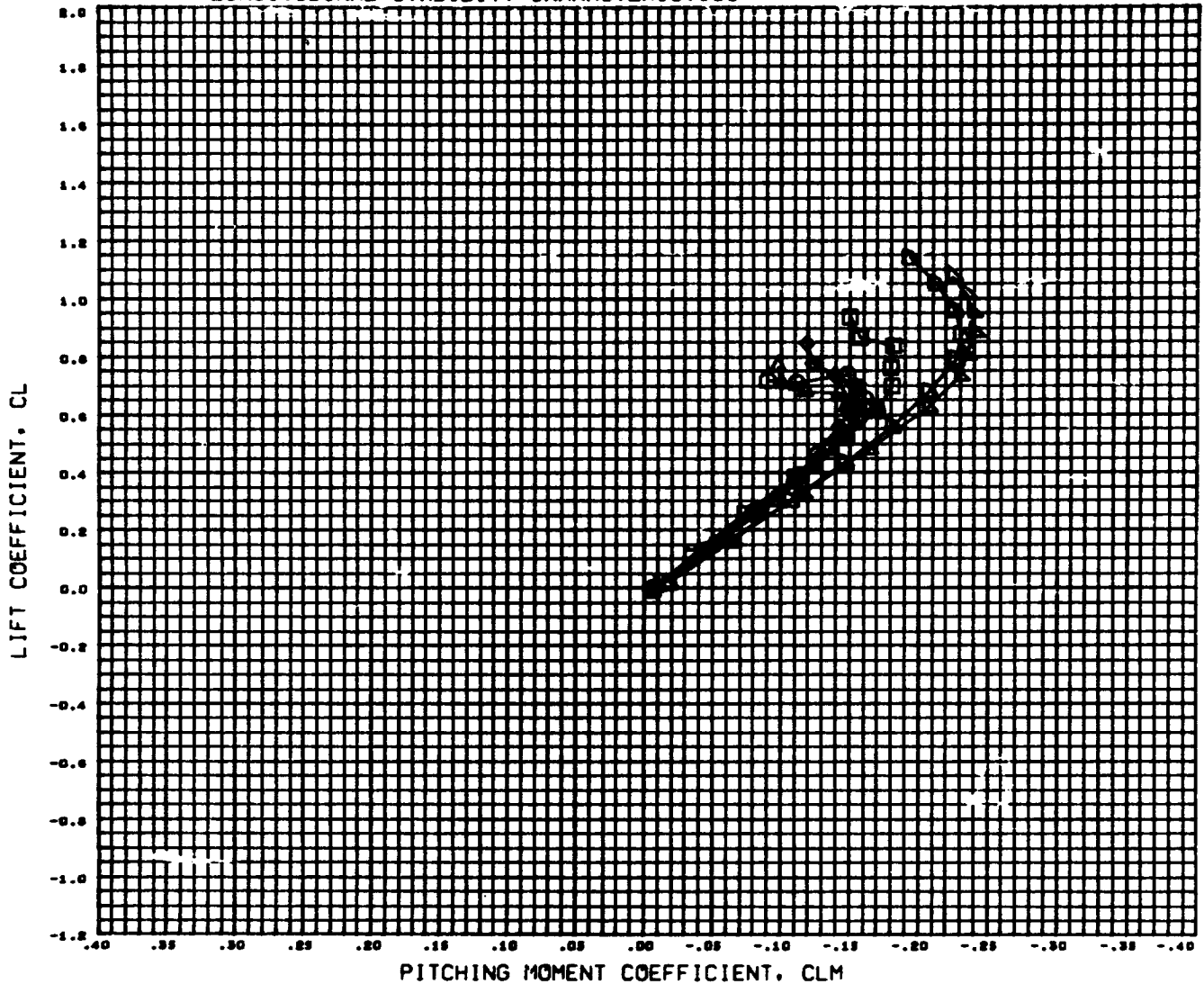
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.958	BETA	0.000	DEL	0.000
△	3.400	DER	0.000	ELEVTR	0.000
◇	4.859	AILRON	0.000		

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V06

M492-MSFC AR11981-1 MODEL B2W6 (E3403A) 24 AUG 71 PAGE 34

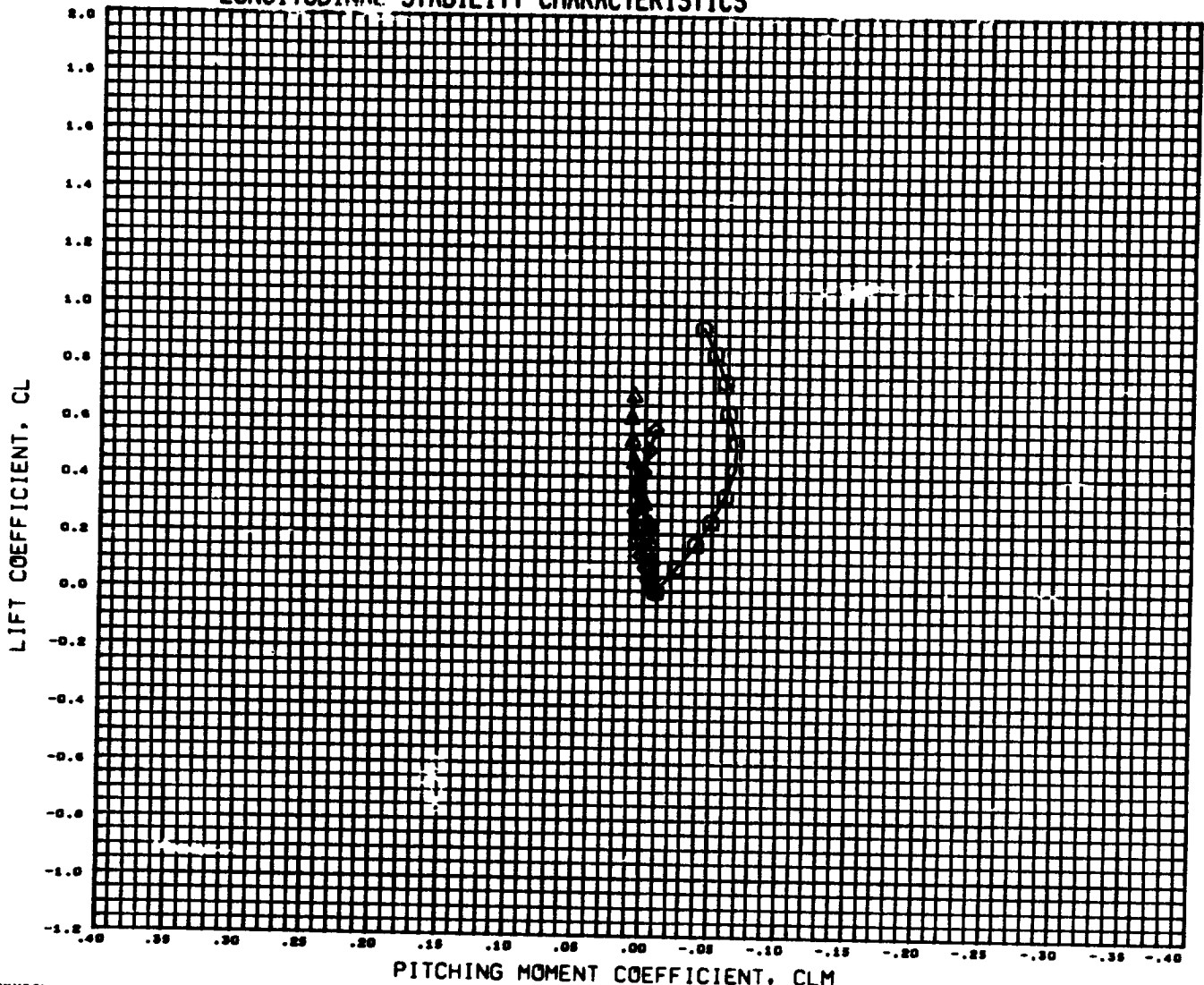
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR		SREF		
◇	0.600	0.000	0.000	0.000		4.6225	88. IN.	
◇	0.801	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	0.898	AILRON	0.000			SREF	4.3000	IN.
◇	0.943					XMRP	2.4000	IN.
◇	0.996					YMRP	0.0000	IN.
◇	1.191					ZMRP	0.0000	IN.
		DATA HIST. CODE	GV0E			SCALE	0.0025	

M492-MSFC AR11981-1 MODEL B2W6 (E3403A) 24 AUG 71 PAGE 35

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES			
○	1.999	BETA	0.000	DEL	0.000
△	3.460	DER	0.000	ELEVTR	0.000
◇	4.999	AILRON	0.000		

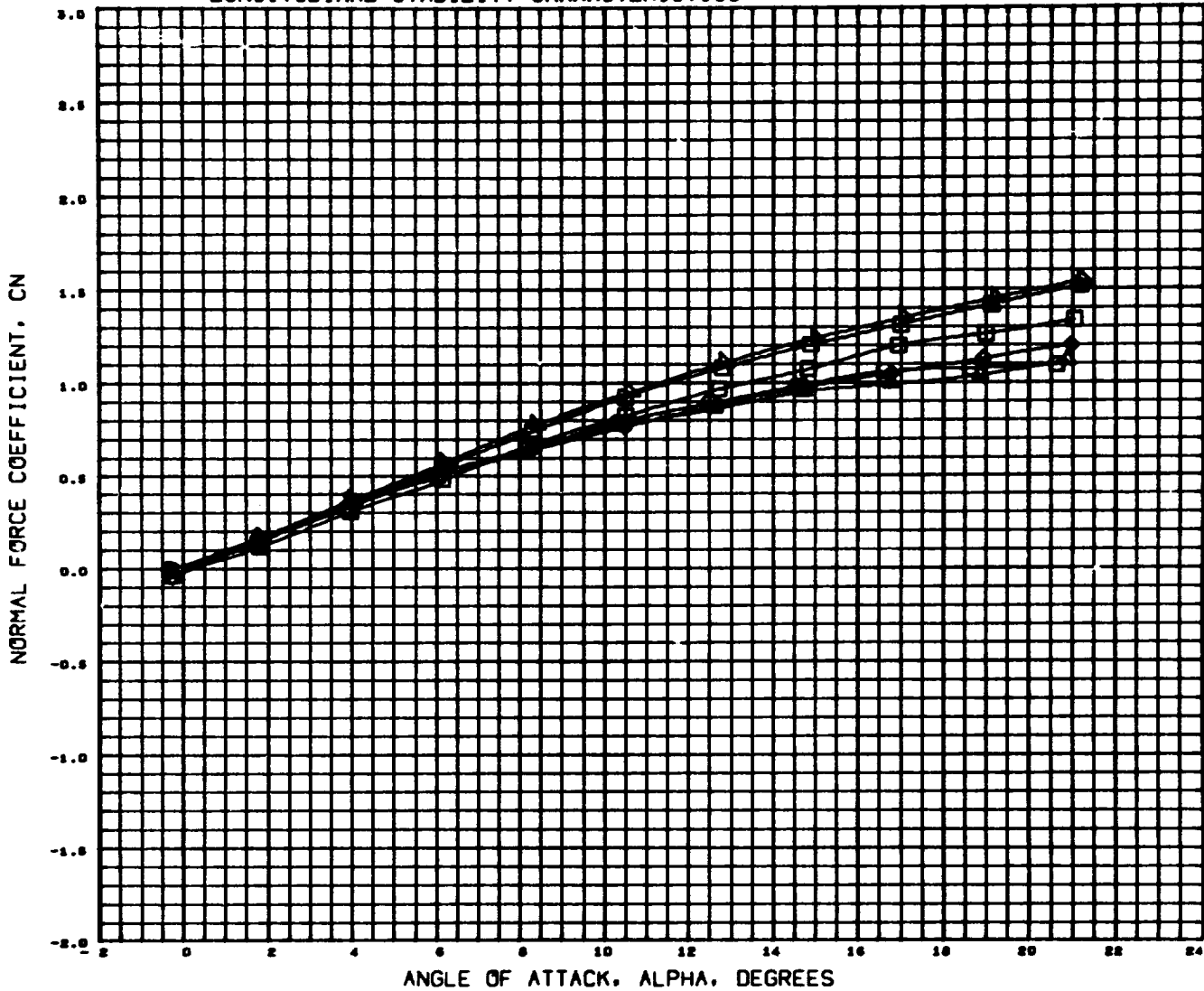
REFERENCE INFORMATION		
BREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	


DATA HIST. CODE 6V9E

M492-MSFC AR1198I-1 MODEL B2W6

(E3403A) 24 AUG 71 PAGE 36

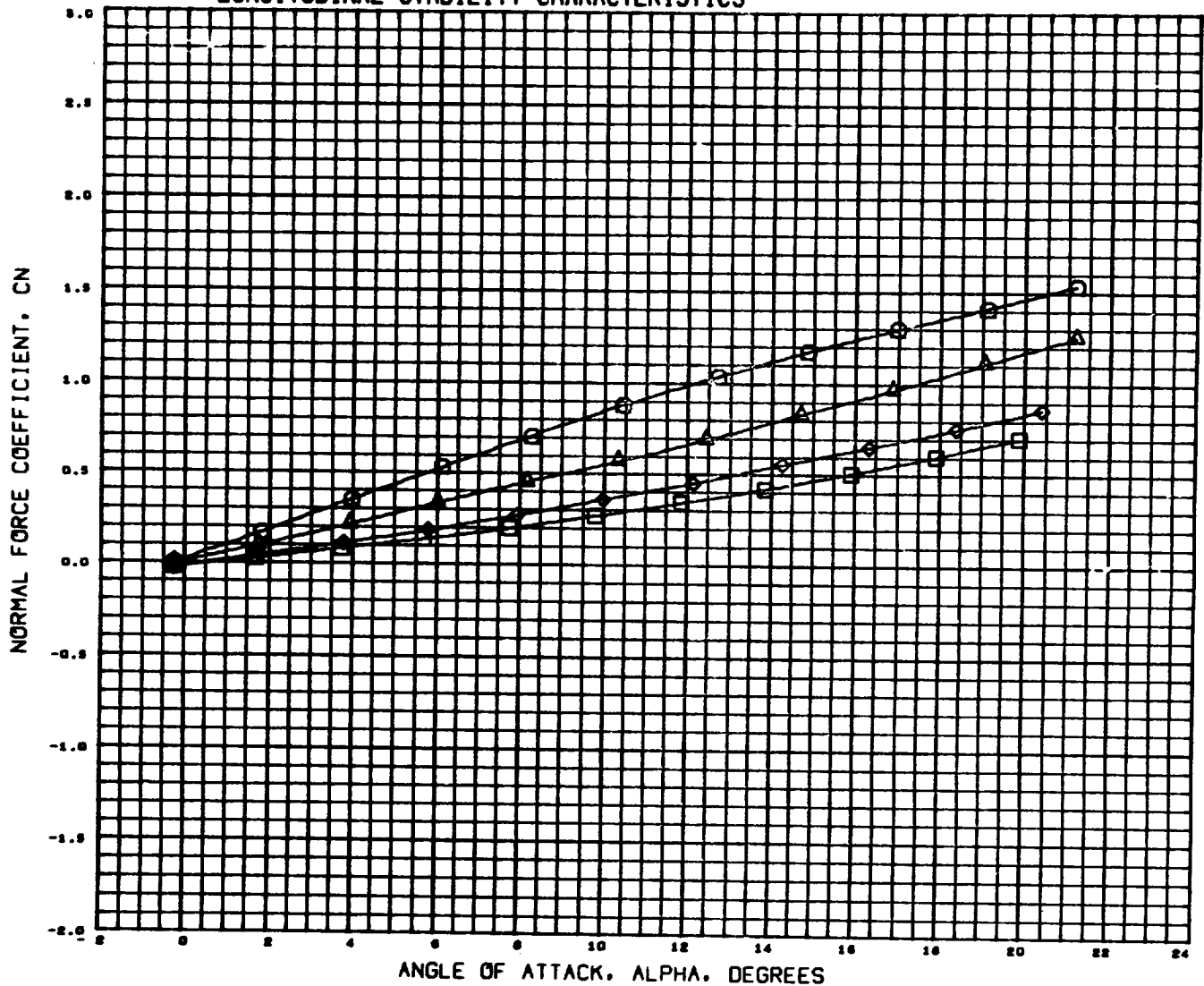
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
      	0.601	BETA	0.000	DEL	0.000			BREF	4.6225	88. IN.
	0.901	DER	0.000	ELEVTR	0.000			LREF	4.3000	IN.
	0.999	AILRON	0.000	CANARD	0.000			BREF	4.3000	IN.
	0.946							XMRP	2.4000	IN.
	1.004							YMRP	0.0000	IN.
	1.100							ZMRP	0.0000	IN.
								SCALE	0.0025	
		DATA	MIST.	CODE	GV9E					

M492-MSFC AR11981-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 37

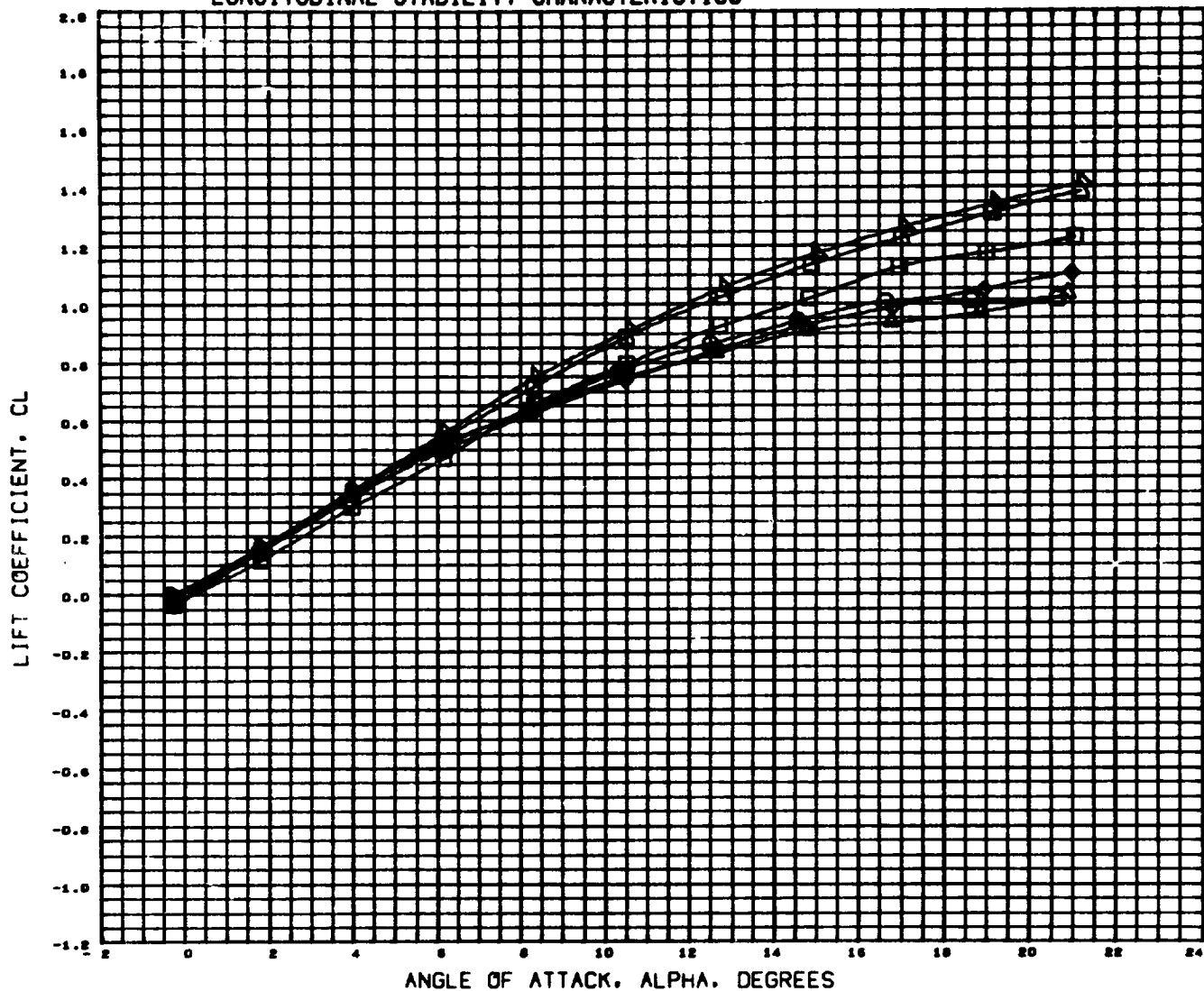
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	1.196	BETA	0.000	DEL	0.000	SREF	4.6225	30. IN.
△	1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	3.480	AILRON	0.000	CANARD	0.000	BREF	4.3000	IN.
□	4.959					XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

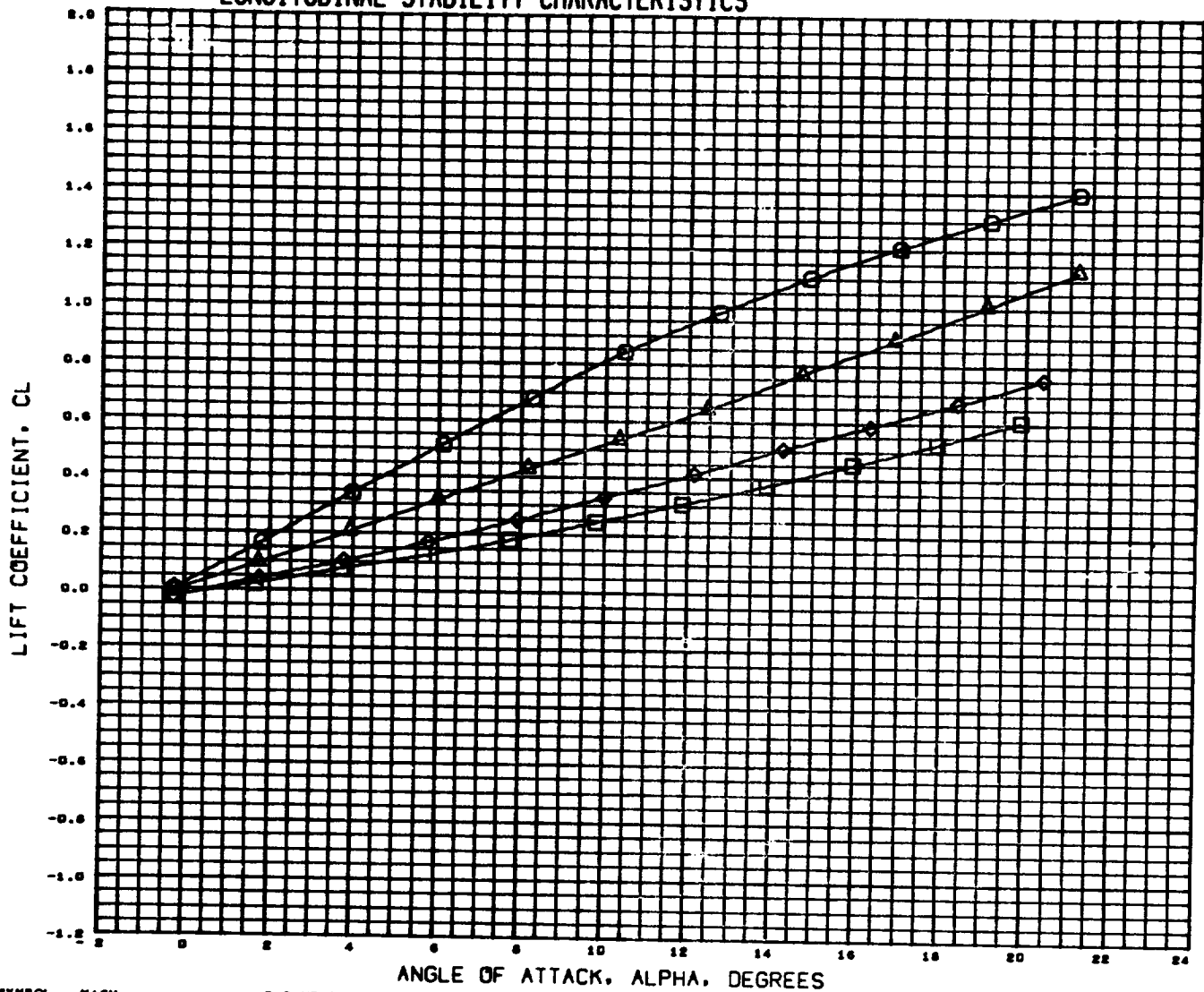
DATA HIST. CODE 6V0E

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR	CANARD	BREF	LREF	SCALE
◇	0.603	0.000	0.000	0.000	0.000	4.6825	4.3000	0.0025
◇	0.601	0.000	0.000	0.000	0.000	4.3000	4.3000	0.0025
◇	0.609	0.000	0.000	0.000	0.000	4.3000	4.3000	0.0025
◇	0.946	0.000	0.000	0.000	0.000	4.3000	4.3000	0.0025
◇	1.004	0.000	0.000	0.000	0.000	4.3000	4.3000	0.0025
◇	1.100	0.000	0.000	0.000	0.000	4.3000	4.3000	0.0025
		DATA MIST. CODE	GVSE					
M492-MSFC		AR11SE1-1		MODEL		B2W6C12V2		(E3405A) 24 AUG 71
								PAGE 39

LONGITUDINAL STABILITY CHARACTERISTICS



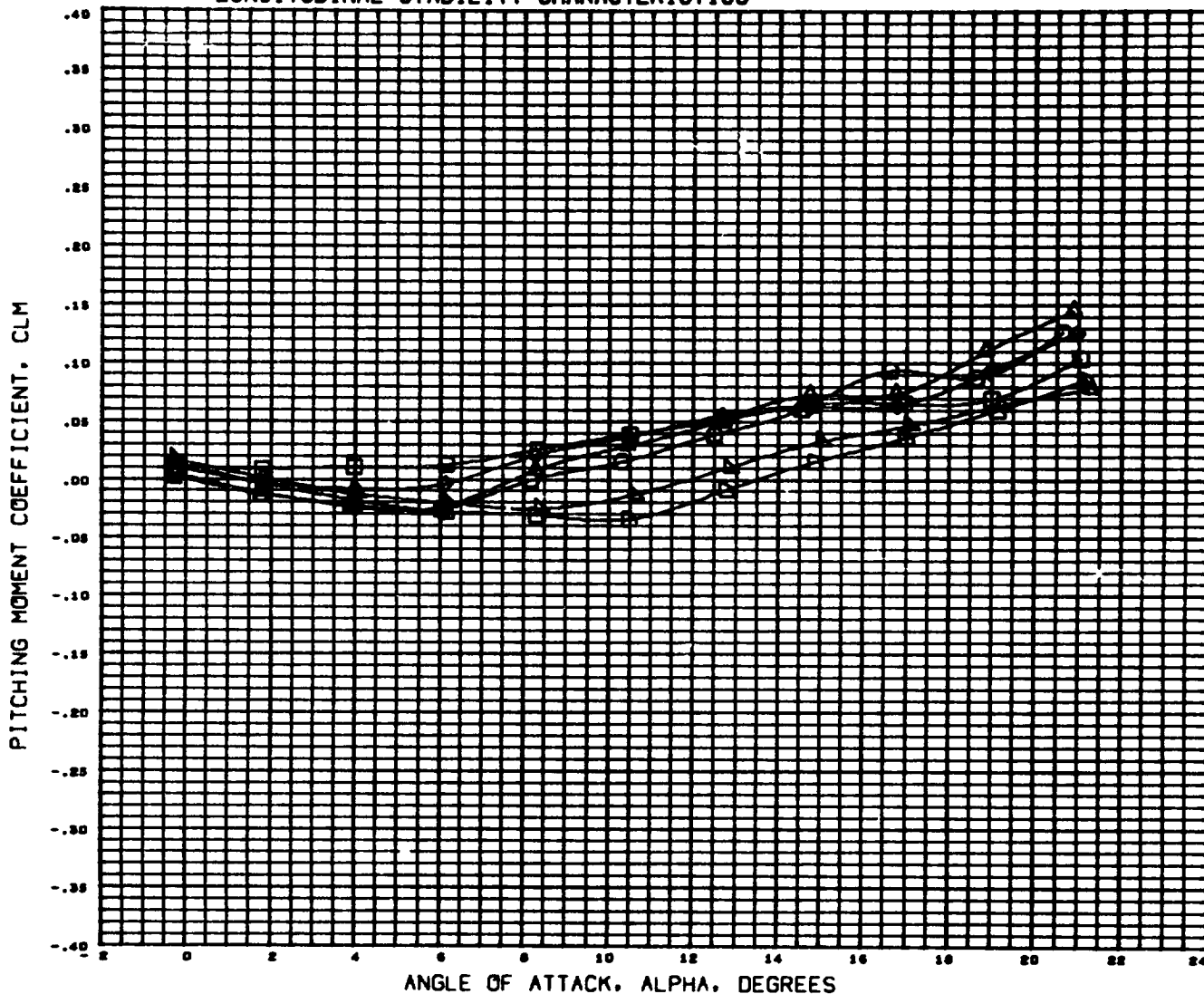
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.296	BETA	0.000	DEL	0.000
△	1.944	DER	0.000	ELEVTR	0.000
◇	3.480	AILRON	0.000	CANARD	0.000
□	4.950				

REFERENCE INFORMATION		
SREF	4.6225	38. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V9E

M492-MSFC AR11981-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 40

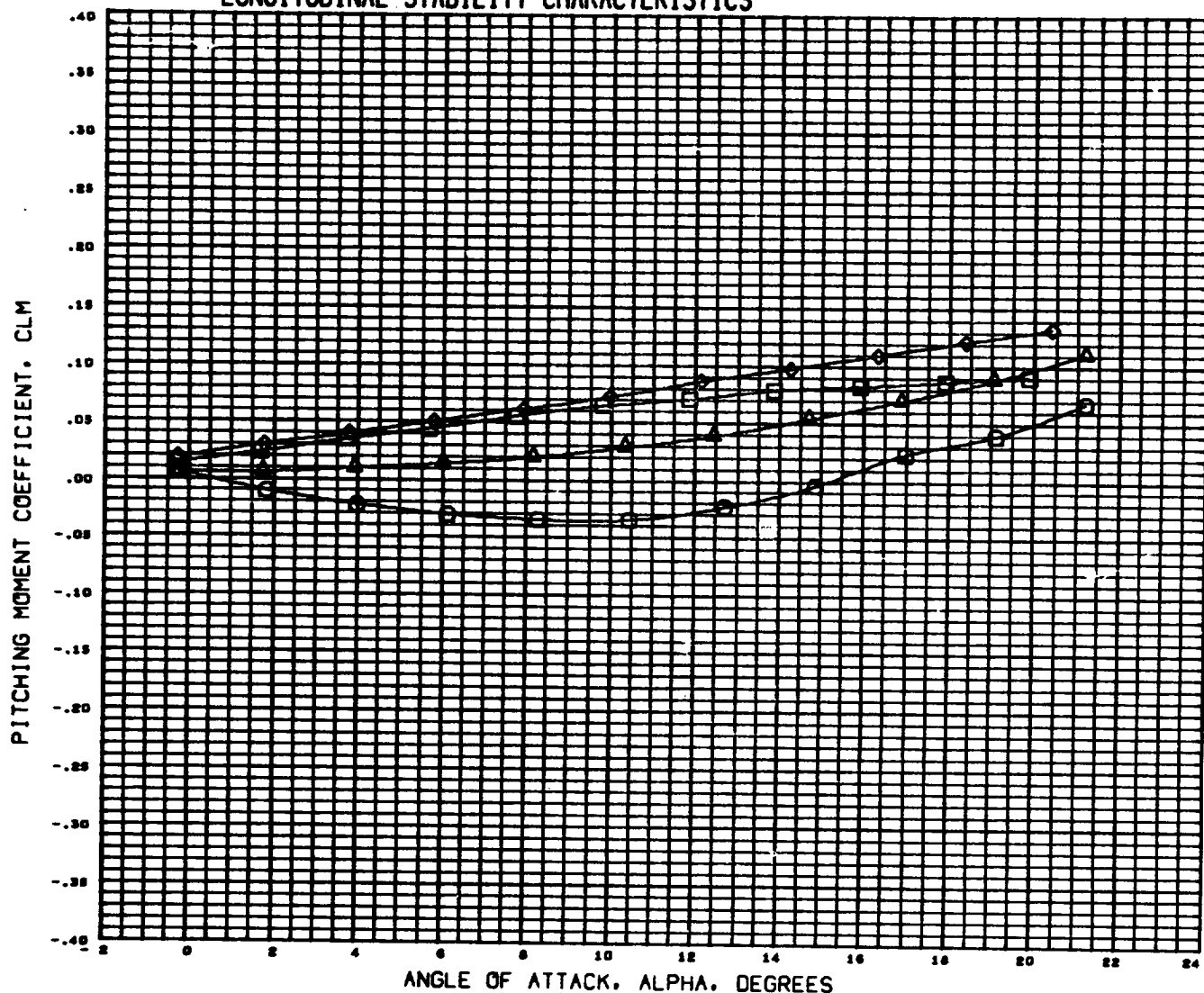
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.801	BETA	0.000	DEL	0.000	SREF	4.6225	50. IN.
◇	0.801	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
□	0.899	AILRON	0.000	CANARD	0.000	SREF	4.3000	IN.
▽	0.946					XMRP	2.4000	IN.
◇	1.004					YMRP	0.0000	IN.
▽	1.100	DATA MIST. COEF	6V0E			ZMRP	0.0000	IN.
						SCALE	0.0025	

M492-MSFC AR11981-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 41

LONGITUDINAL STABILITY CHARACTERISTICS

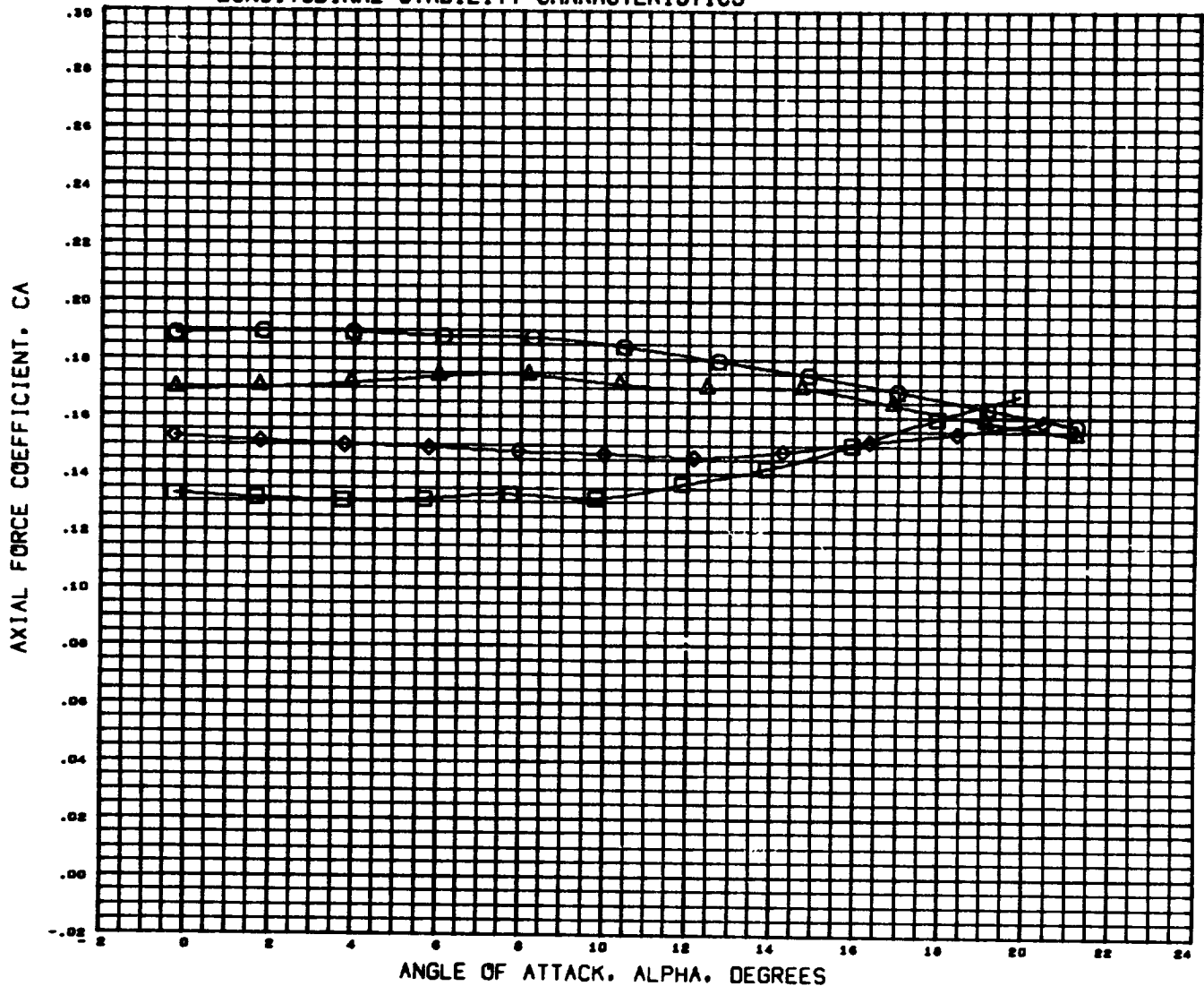


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	1.196	BETA	0.000	DEL	0.000	SREF	4.6223	80. IN.
△	1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
□	3.480	AILRON	0.000	CANARD	0.000	BREF	4.3000	IN.
◇	4.999					XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE 6V0E

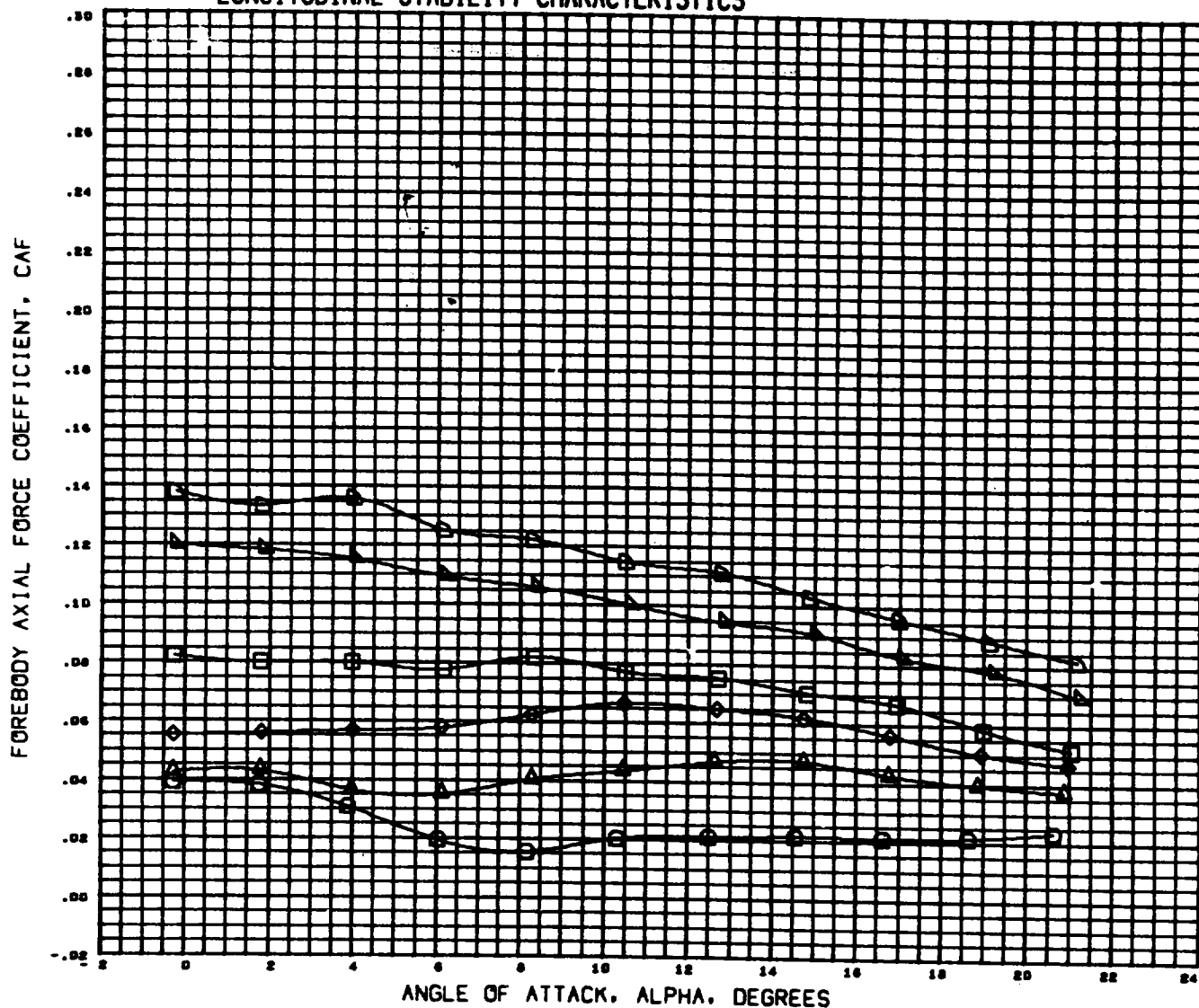
A line graph showing the Axial Force Coefficient (CA) on the y-axis (ranging from -0.02 to 0.30) versus the Angle of Attack (Alpha) in degrees on the x-axis (ranging from -2 to 24). The graph contains 11 data series, each represented by a different marker and line style, corresponding to different Reynolds numbers (Re). The series are: Re = 100 (open circles), Re = 200 (open squares), Re = 300 (open triangles), Re = 400 (open diamonds), Re = 500 (open circles with a dot), Re = 600 (open squares with a dot), Re = 800 (open triangles with a dot), Re = 1000 (open diamonds with a dot), Re = 1500 (open circles with a cross), Re = 2000 (open squares with a cross), and Re = 3000 (open triangles with a cross). The curves generally show a peak in CA at low angles of attack, followed by a decrease and then a slight increase at higher angles. The peak CA values are highest for the lowest Reynolds number (Re = 100) and decrease as the Reynolds number increases.

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	1.196	BETA	0.000	DEL	0.000	SREF	4.6225	88. IN.
◇	1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
△	3.480	AILRON	0.000	CANARD	0.000	BREF	4.3000	IN.
□	4.959					XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

LONGITUDINAL STABILITY CHARACTERISTICS

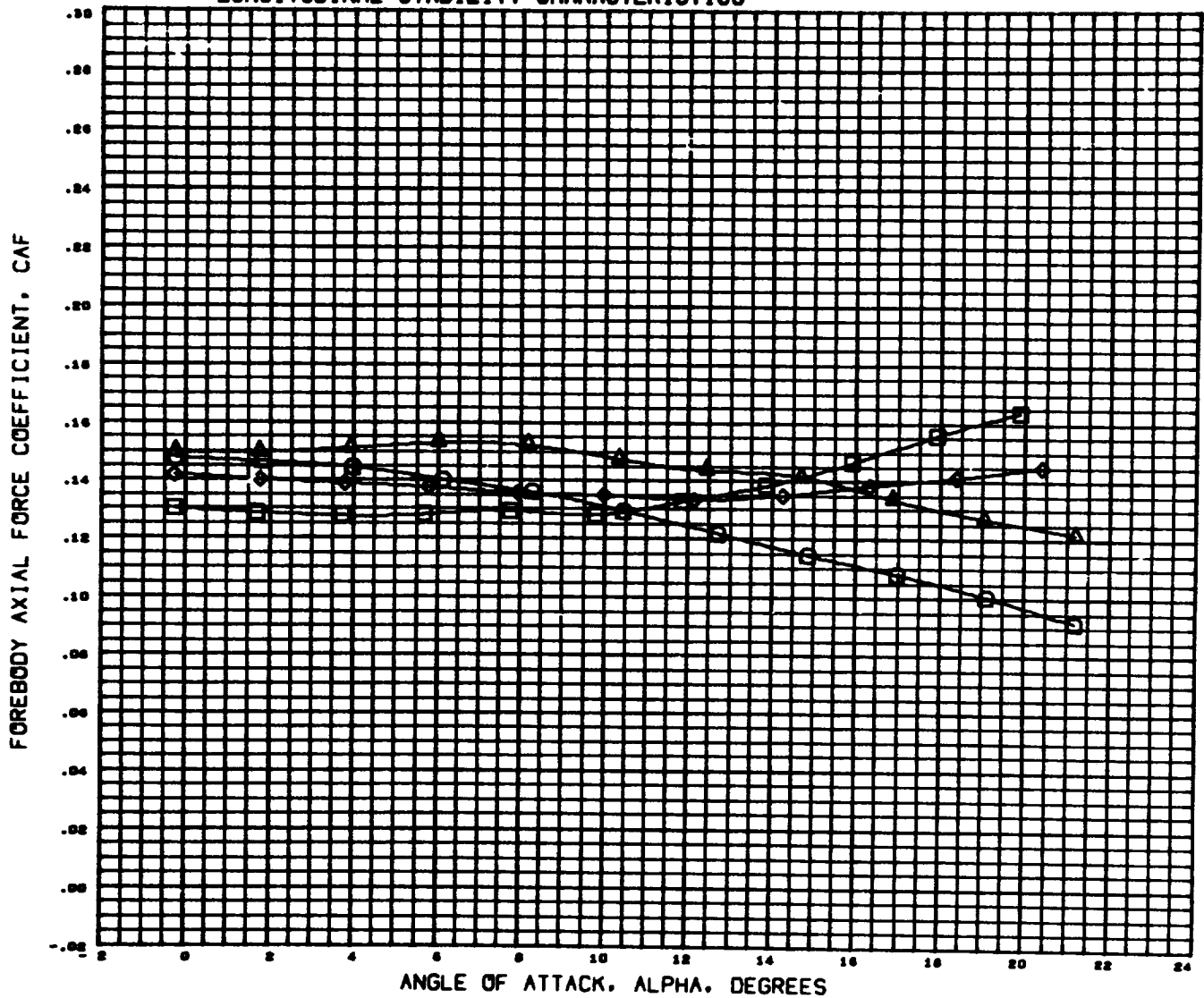


SYMBOL	MACH	PARAMETRIC VALUES
□	0.601	BETA 0.000 DEL 0.000
◇	0.801	DER 0.000 ELEVTR 0.000
◇	0.899	AILRON 0.000 CANARD 0.000
◇	0.946	
◇	1.004	
◇	1.100	

DATA HIST. CODE 6V6E

REFERENCE INFORMATION
SREF 4.6225 80. IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XNRP 2.4000 IN.
YNRP 0.0000 IN.
ZNRP 0.0000 IN.
SCALE 0.0025

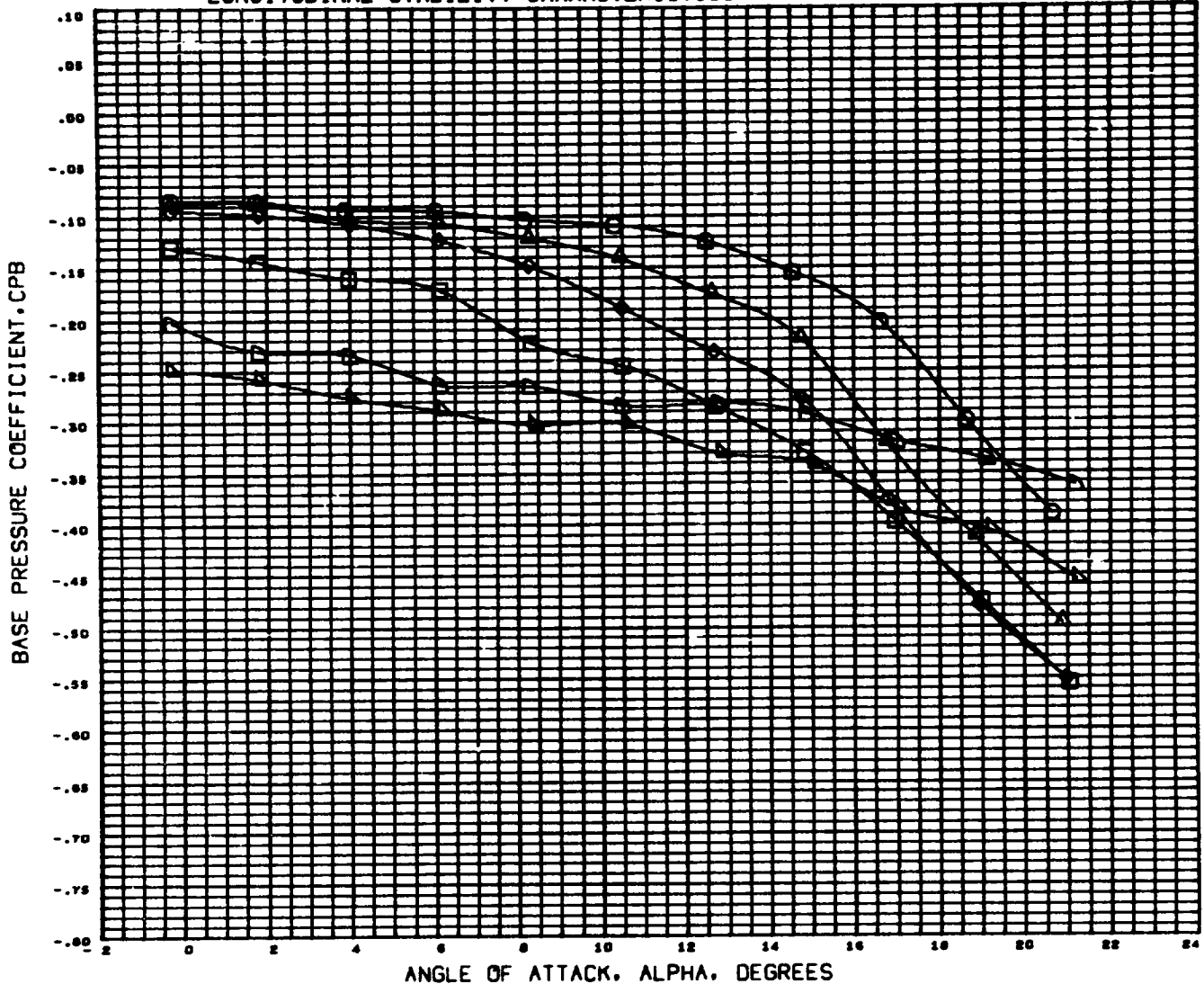
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	1.198	BETA	0.000	DEL	0.000	SREF	4.6225	90. IN.
△	1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	3.400	AILRON	0.000	CANARD	0.000	SREF	4.3000	IN.
□	4.859					XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

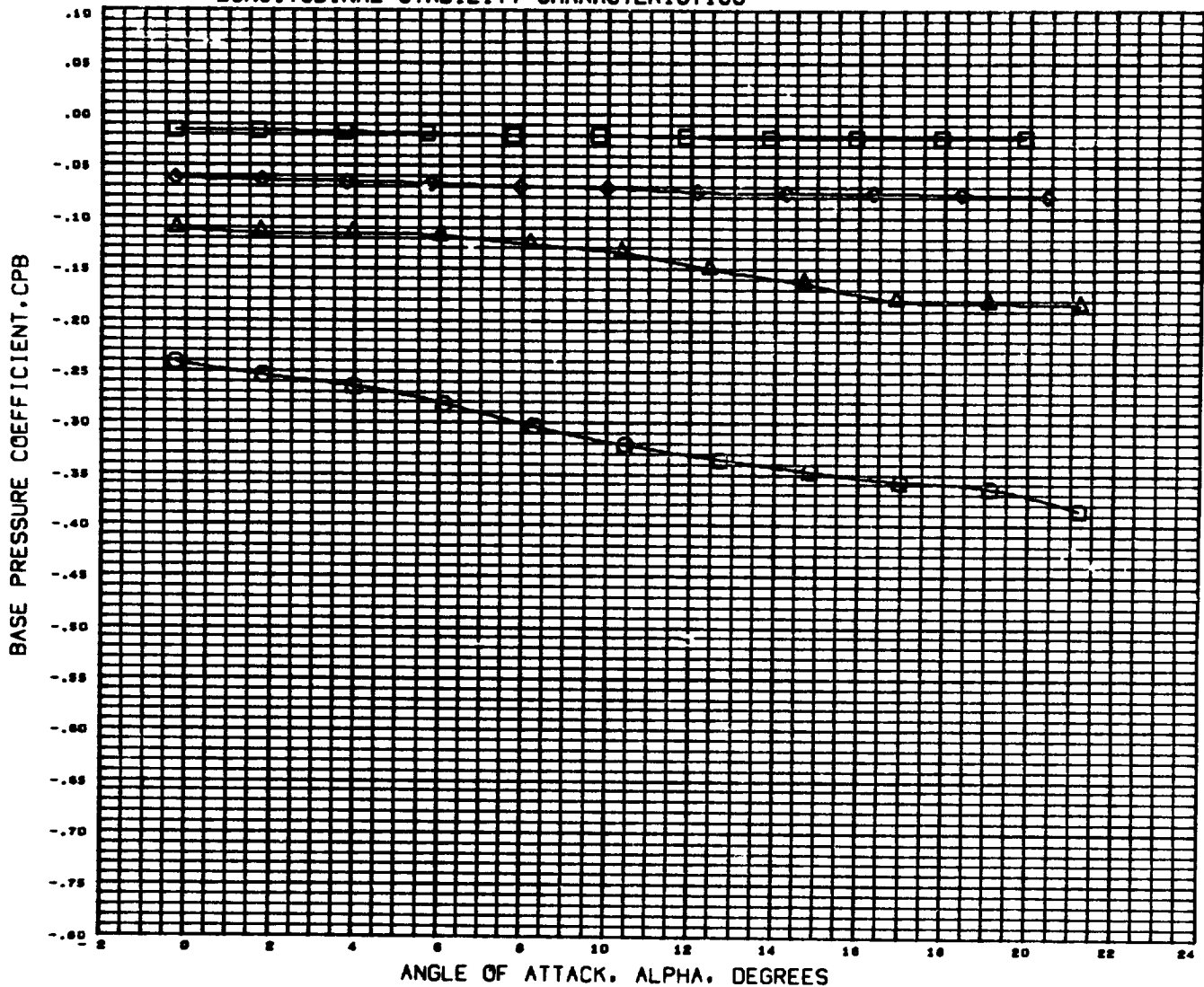
DATA HIST. CODE 6V0E

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
			BETA	DEL	ELEVTR	CANARD	SREF	LREF	BREF
○	0.401		0.000	0.000	0.000	0.000	4.6225	4.3000	4.3000
◇	0.601		0.000	0.000	0.000	0.000	4.3000	4.3000	4.3000
□	0.889		0.000	0.000	0.000	0.000	2.4000	0.0000	0.0000
◇	0.946						0.0000	0.0000	0.0000
□	1.004						0.0000	0.0000	0.0000
◇	1.100						0.0025		
		DATA HIST. CODE	GV0E						

LONGITUDINAL STABILITY CHARACTERISTICS

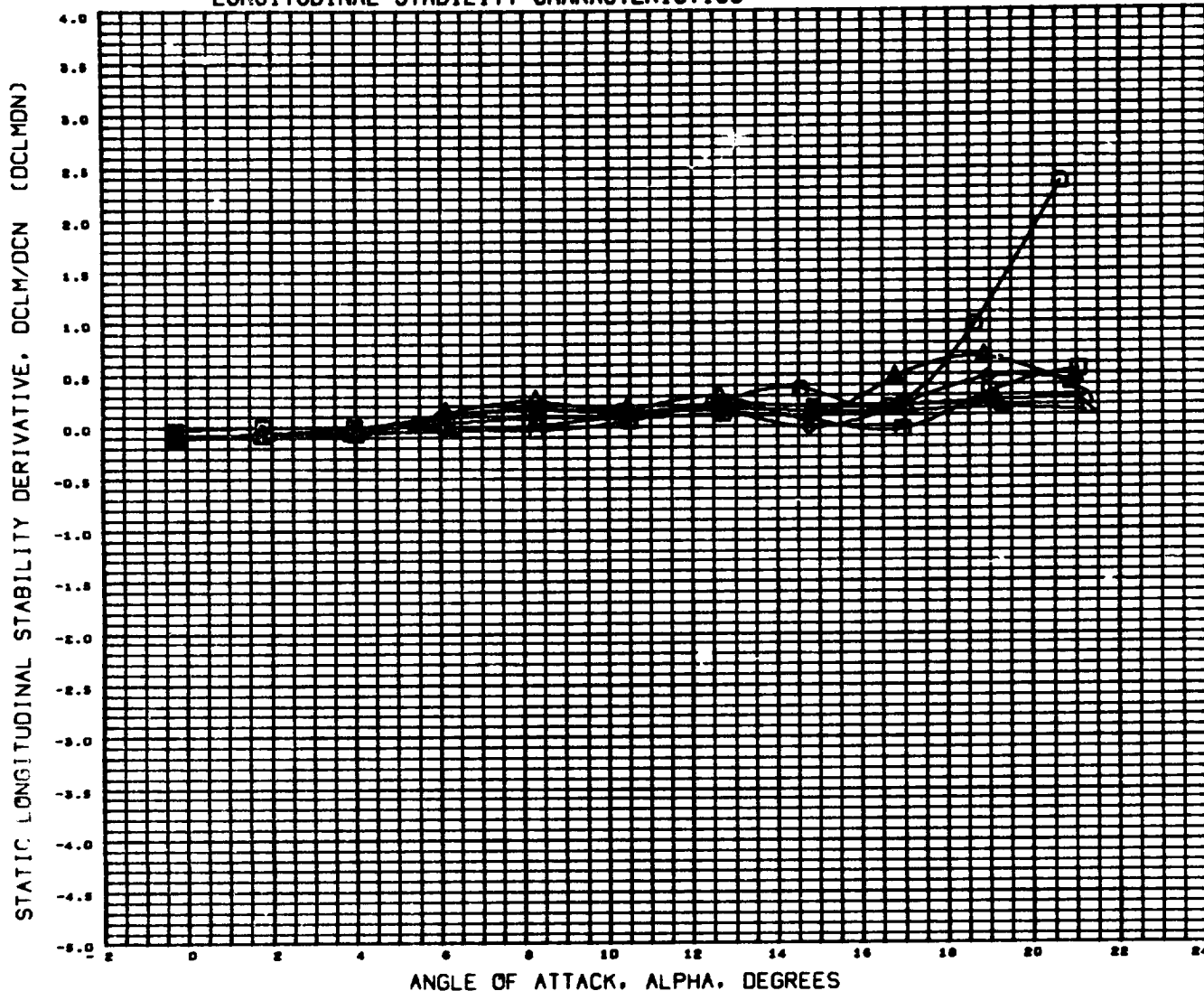


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION	
○	1.196	BETA	0.000	DEL	0.000	SREF	4.6225 SQ. IN.
◇	1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000 IN.
△	3.480	AILRON	0.000	CANARD	0.000	BREF	4.3000 IN.
□	4.959					XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

DATA HIST. CODE 6V9E

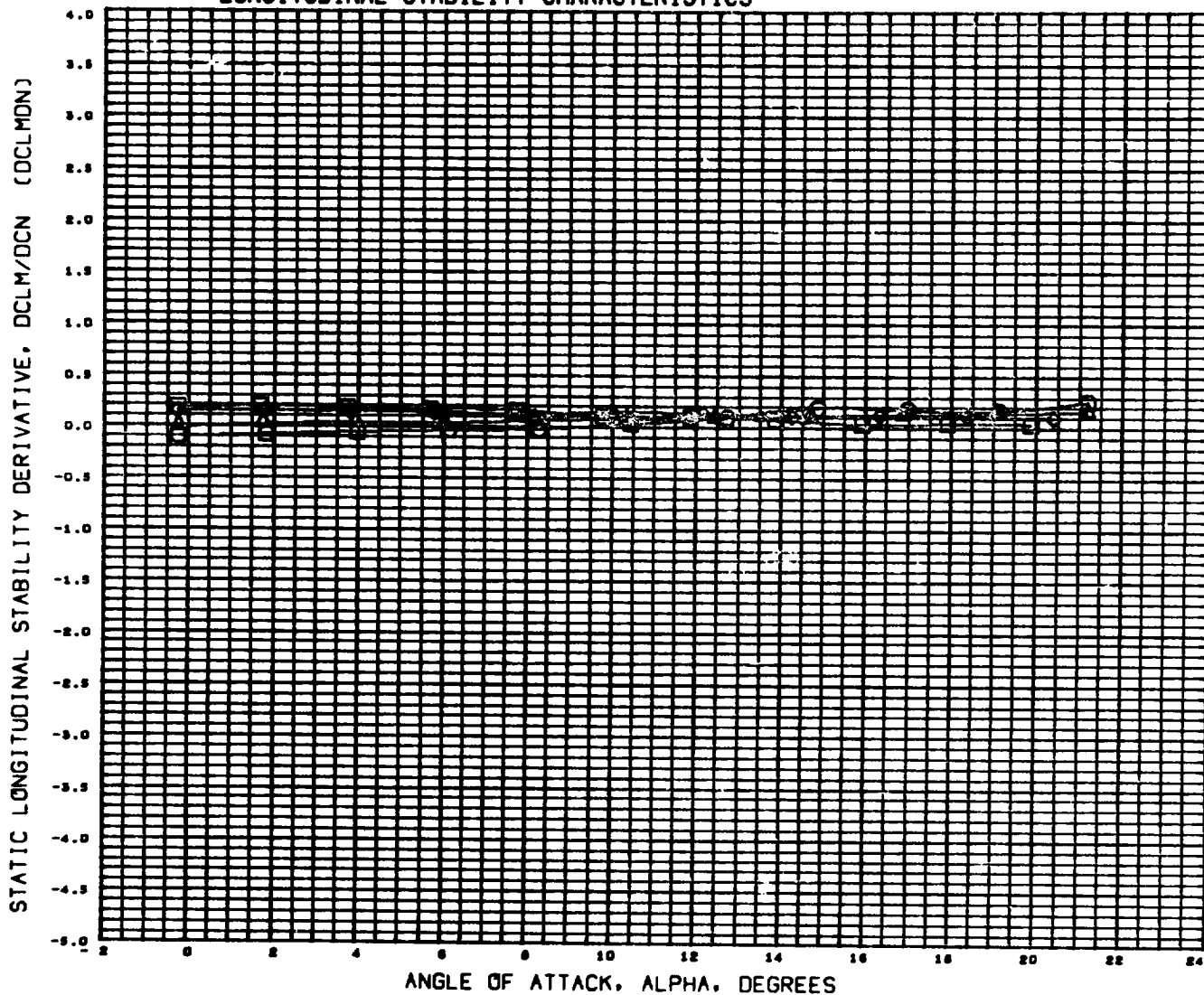
M492-MSFC AR1198I-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 48

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION	
○	0.801	BETA	0.000	DEL	0.000		BREF	4.6225 88. IN.
◇	0.801	DER	0.000	ELEVTR	0.000		LREF	4.3000 IN.
◇	0.899	AILRON	0.000	CANARD	0.000		BREF	4.3000 IN.
◇	0.946						XMRP	2.4000 IN.
◇	1.004						YMRP	0.0000 IN.
◇	1.100						ZMRP	0.0000 IN.
		DATA HIST. CODE	6V9E				SCALE	0.0025

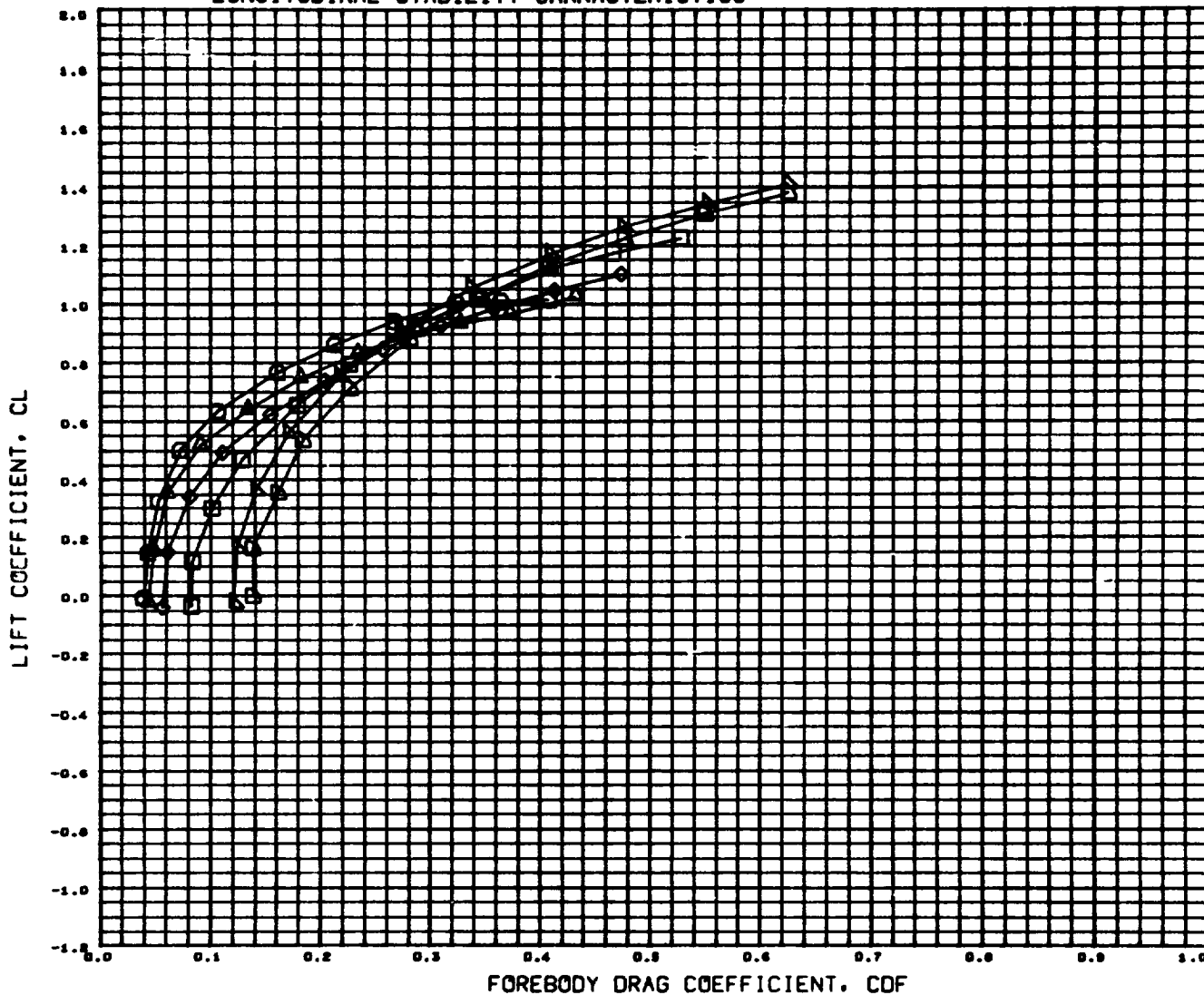
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
	1.196	BETA	0.000	DEL	0.000		SREF	4.6225	50. IN.
	1.944	DER	0.000	ELEVTR	0.000		LREF	4.3000	IN.
	3.460	AILRON	0.000	CANARD	0.000		BREF	4.3000	IN.
	4.999						XNRP	2.4000	IN.
							YNRP	0.0000	IN.
							ZNRP	0.0000	IN.
							SCALE	0.0025	

DATA HIST. CODE 6V0E

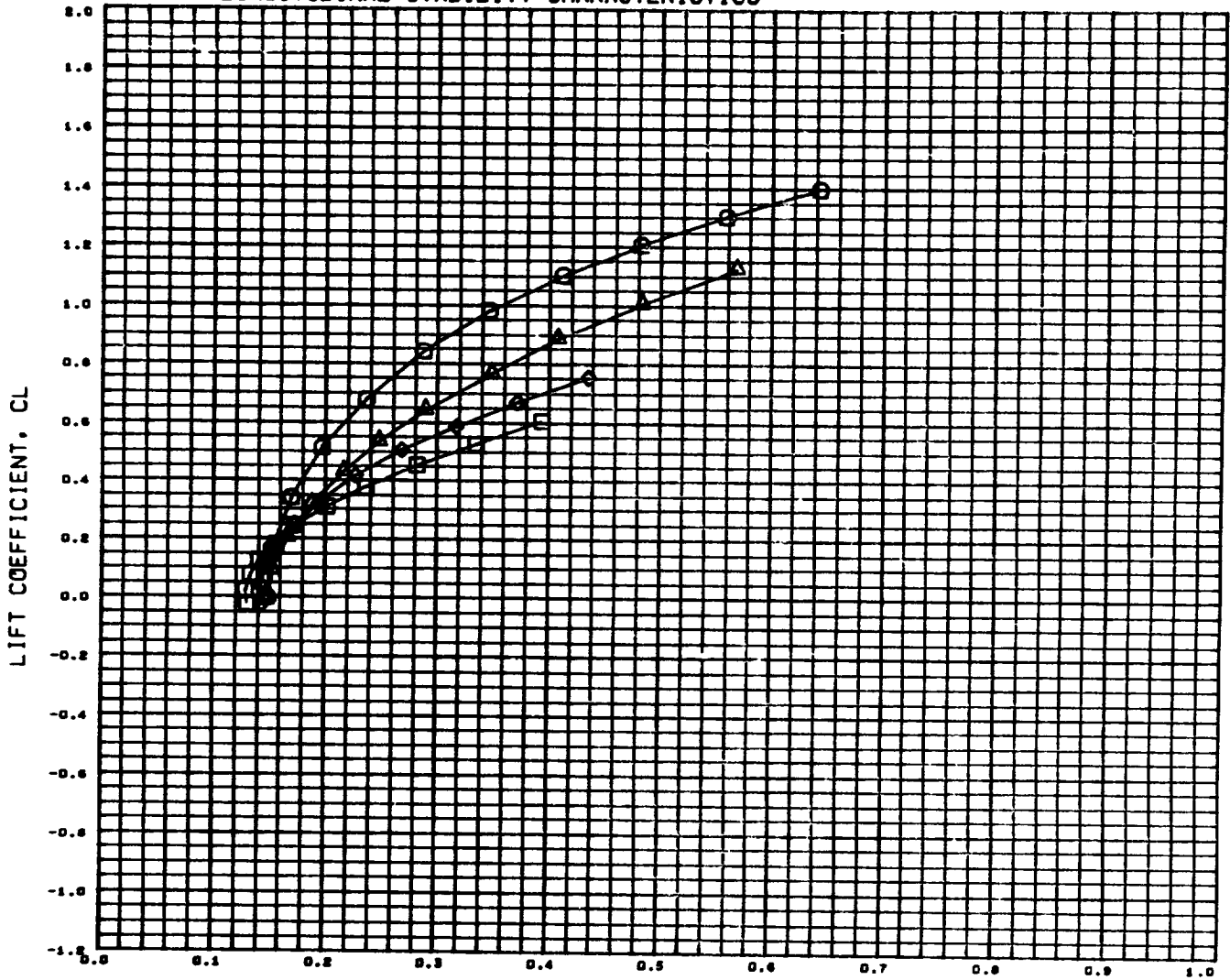
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.001	BETA	0.000	DEL	0.000	DRP	4.0000	80. IN.
□	0.001	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
△	0.009	AILRON	0.000	CANARD	0.000	DRP	4.3000	IN.
◇	0.040					XMRP	2.4000	IN.
	1.004					YMRP	0.0000	IN.
	1.300					ZMRP	0.0000	IN.
		DATA HIST. CODE	6V9E			SCALE	0.0000	

M492-MSFC AR11981-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 51

LONGITUDINAL STABILITY CHARACTERISTICS

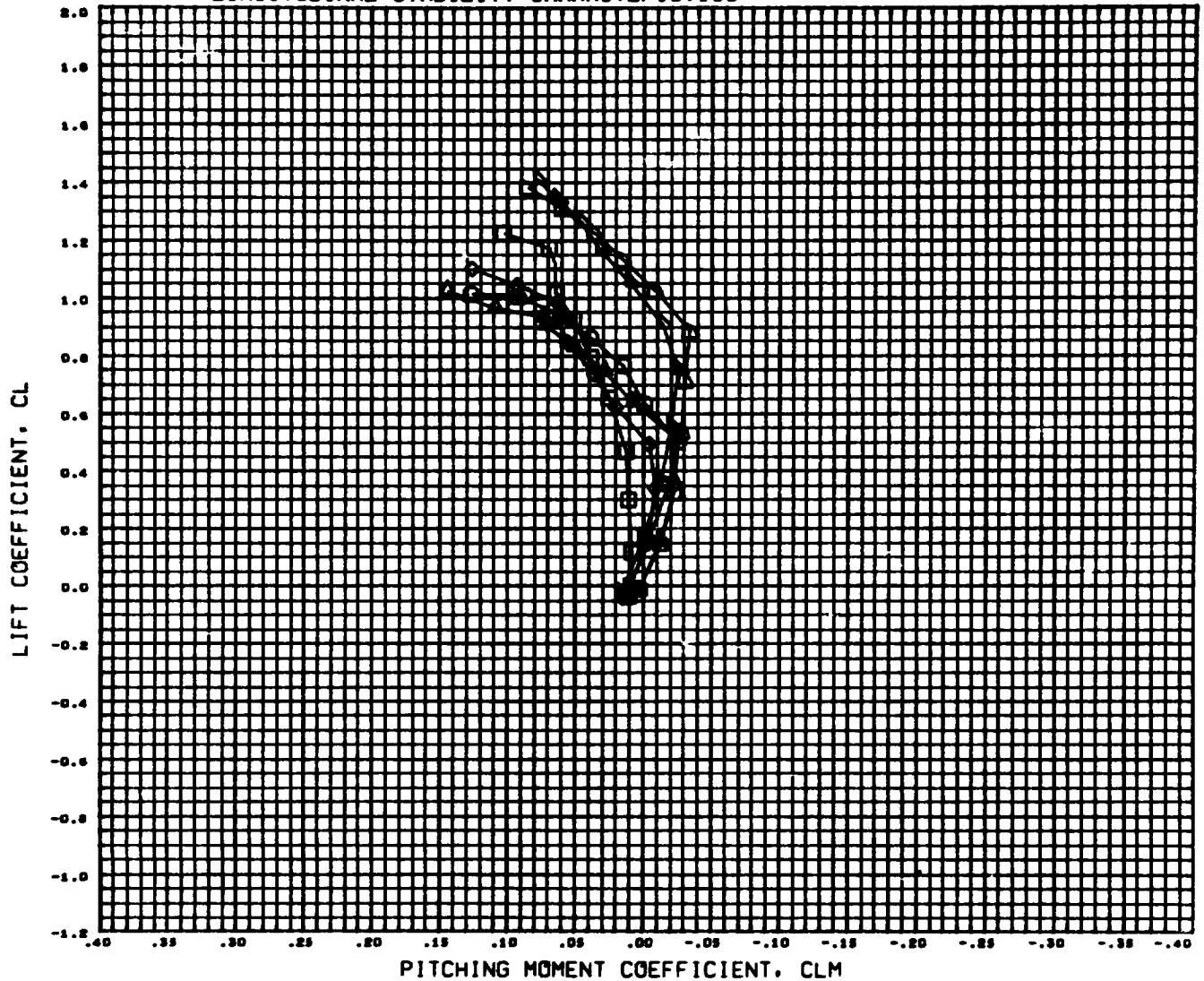


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION	
○	1.196	BETA	0.000	DEL	0.000	SREF	4.6225 30. IN.
△	1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000 IN.
◇	3.480	AILRON	0.000	CANARD	0.000	BREF	4.3000 IN.
□	4.959					XHRP	2.4000 IN.
						YHRP	0.0000 IN.
						ZHRP	0.0000 IN.
						SCALE	0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR1198I-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 52

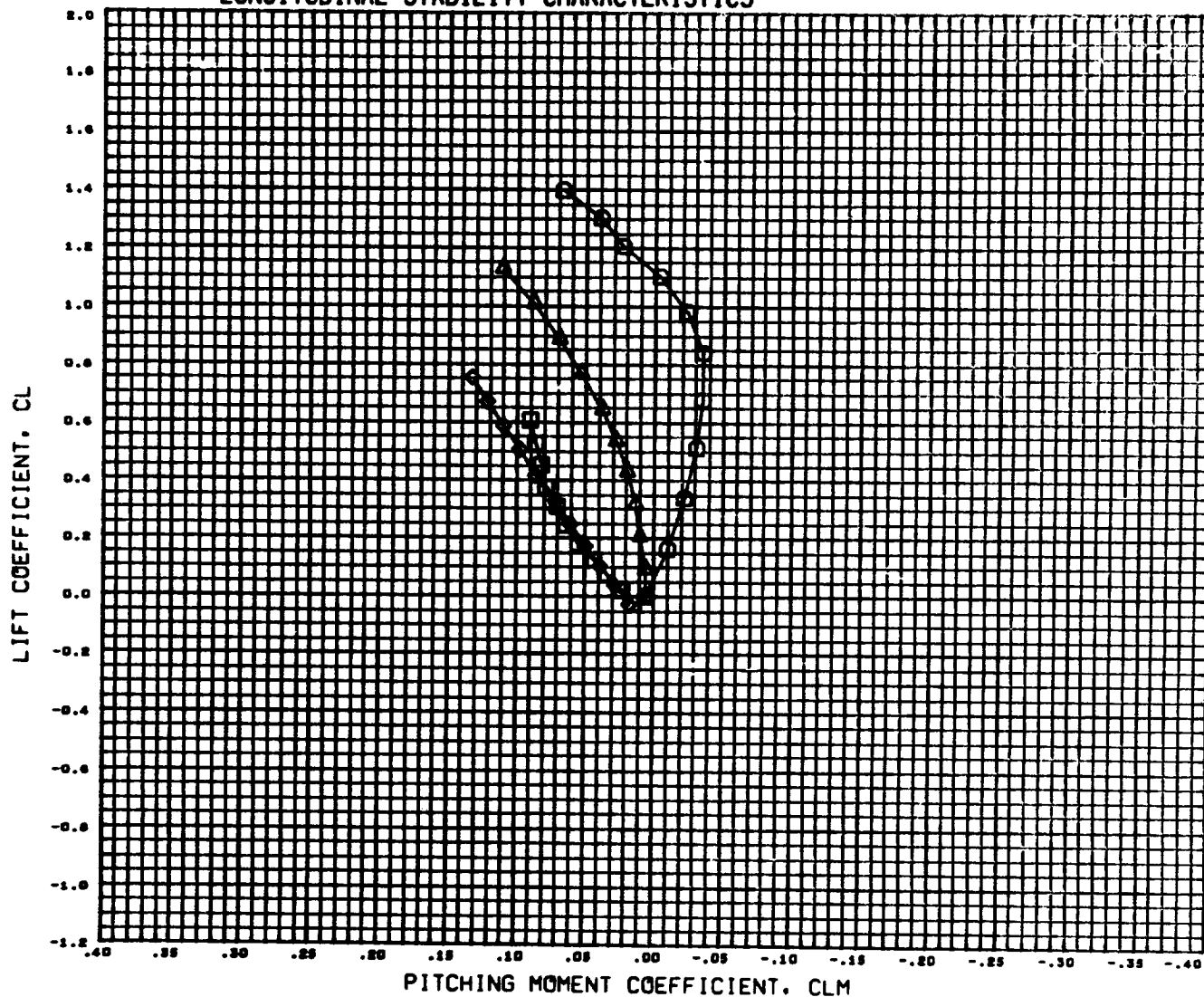
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
□	0.601	BETA	0.000	DEL	0.000		SREF	4.6225	88. IN.
◇	0.601	DER	0.000	ELEVTR	0.000		LREF	4.3000	IN.
△	0.699	AILRON	0.000	CANARD	0.000		SREF	4.3000	IN.
◇	0.946						XMRP	2.4000	IN.
◇	1.004						YMRP	0.0000	IN.
◇	1.100						ZMRP	0.0000	IN.
		DATA MIST. CODE	6V0E				SCALE	0.0025	

M492-MSFC AR11981-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 53

LONGITUDINAL STABILITY CHARACTERISTICS

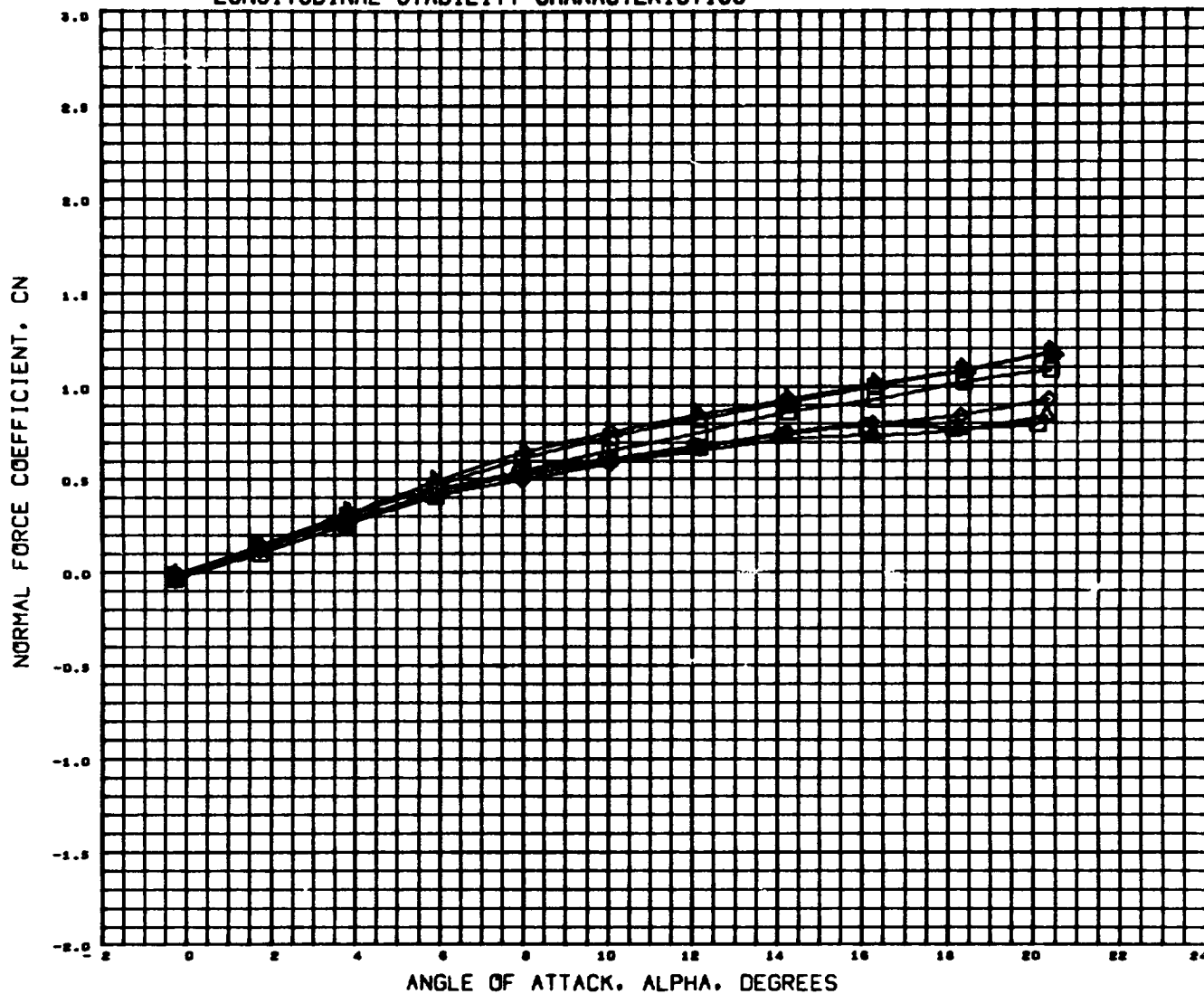


SYMBOL		PARAMETRIC VALUES				REFERENCE INFORMATION		
○	MACH	1.196	BETA	0.000	DEL	0.000	SREF	4.6225
△		1.944	DER	0.000	ELEVTR	0.000	LREF	4.3000
◇		3.480	AILRON	0.000	CANARD	0.000	BREF	4.3000
□		4.938					XMRP	2.4000
							YMRP	0.0000
							ZMRP	0.0000
							SCALE	0.0025

DATA HIST. CODE CV0E

M492-MSFC AR11981-1 MODEL B2W6C12V2 (E3405A) 24 AUG 71 PAGE 54

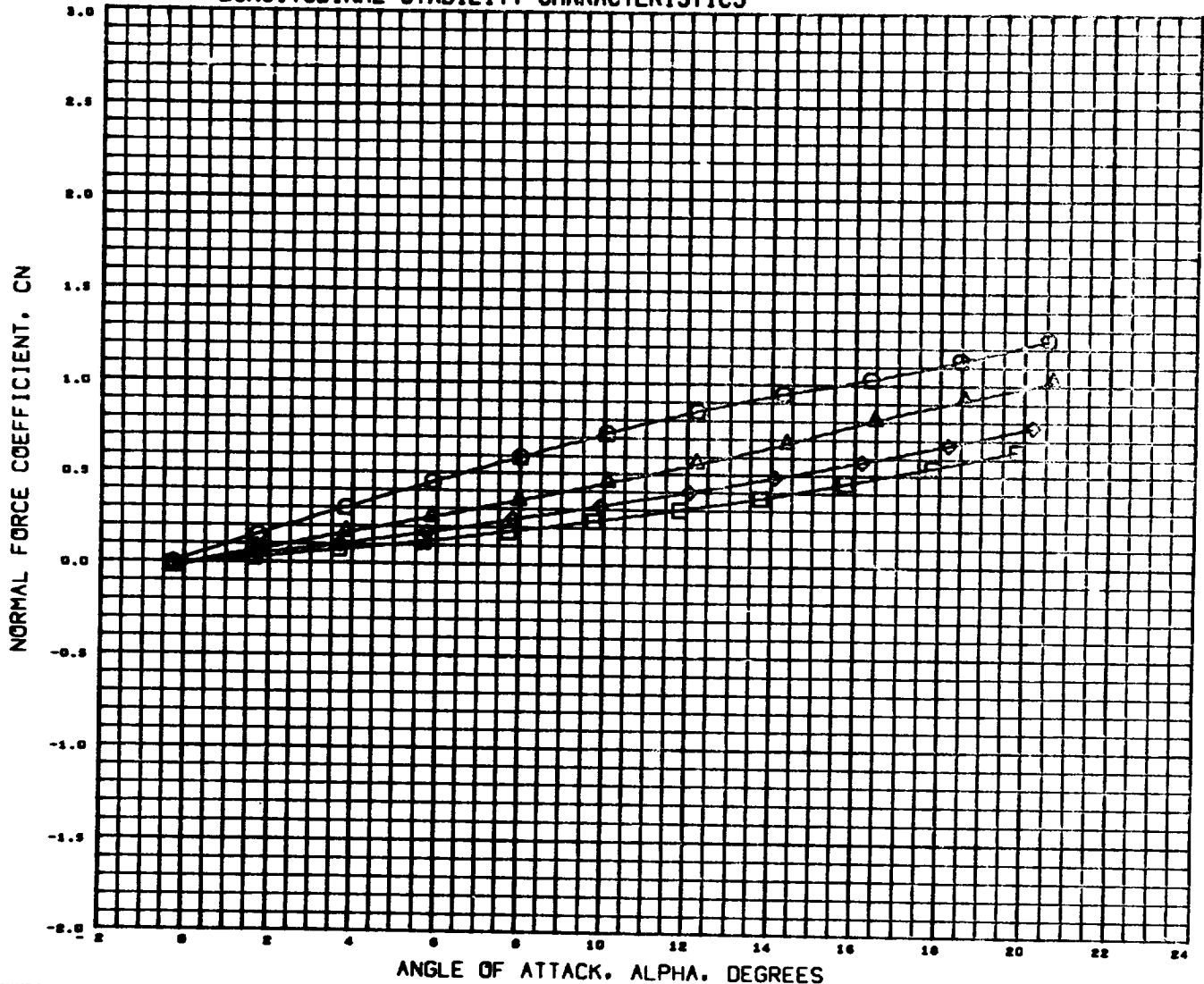
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.998	BETA	0.000	DEL	0.000		BREF	4.6225	50. IN.
◇	0.798	DER	0.000	ELEVTR	0.000		LREF	4.3000	IN.
□	0.599	AILROM	0.000				BREF	4.3000	IN.
△	0.351						XNRP	2.4000	IN.
▽	1.003						YNRP	0.0000	IN.
◇	1.046	DATA HIST. CODE	6V9E				ZNRP	0.0000	IN.
							SCALE	0.0025	

M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 55

LONGITUDINAL STABILITY CHARACTERISTICS



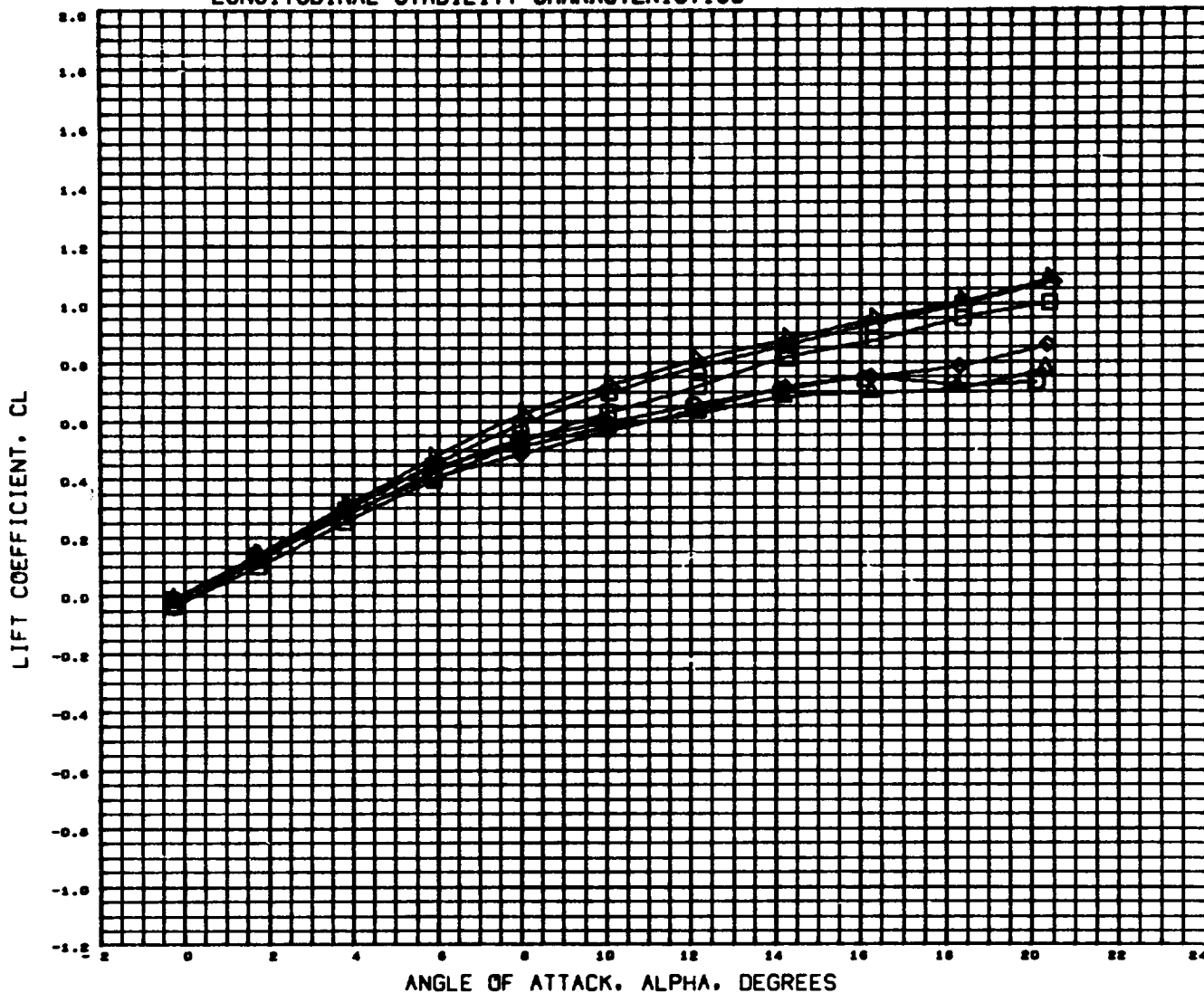
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.188	BETA	0.000	DEL	0.000
△	1.939	DER	0.000	ELEVTR	0.000
◇	3.480	AILRON	0.000		
□	4.939				

REFERENCE INFORMATION		
SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

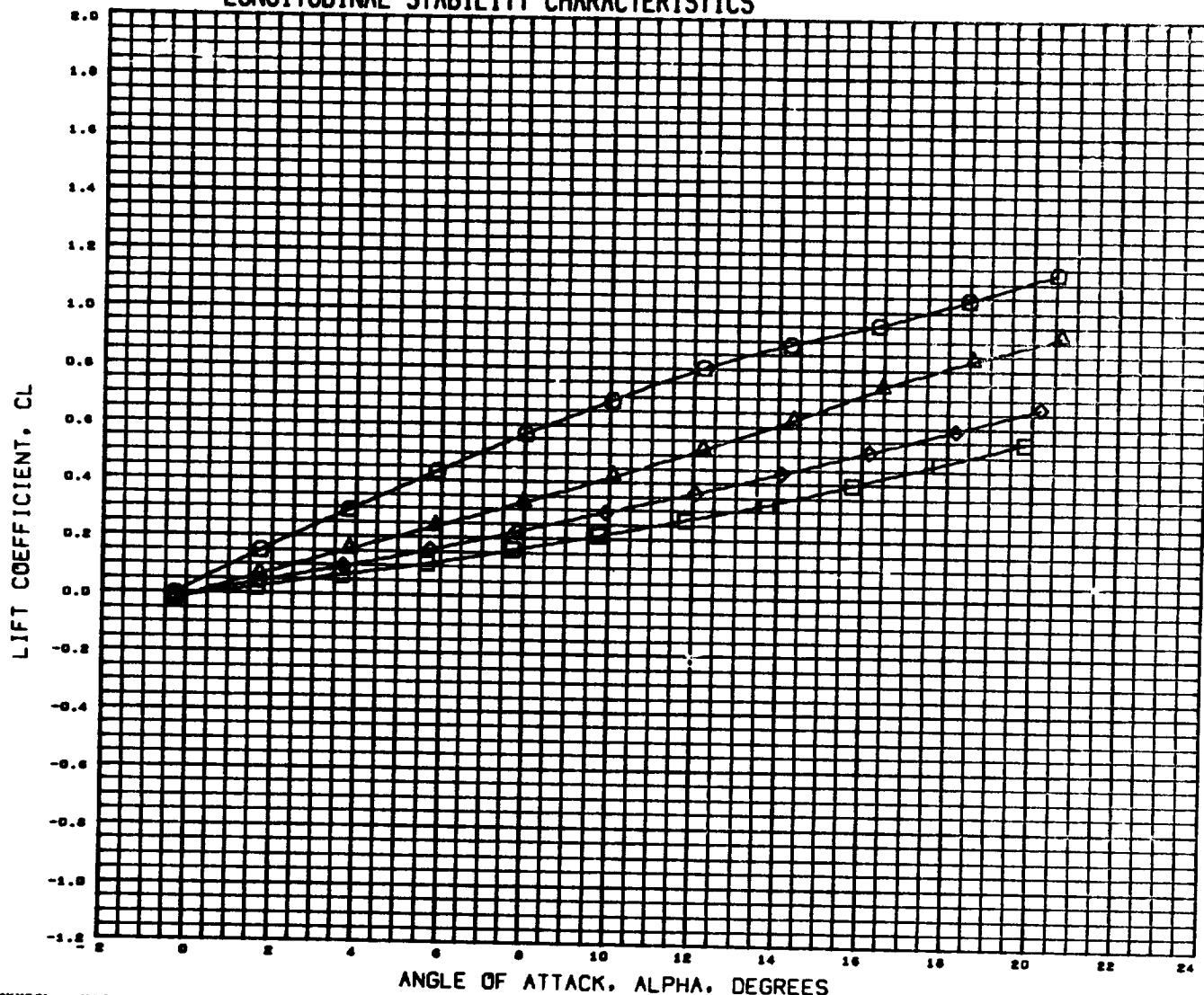
M492-MSFC AR1198I-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 56

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR		SREF	4.6225	58. IN.
□	0.798	DER	0.000	0.000		LREF	4.3000	IN.
□	0.899	AILRON	0.000			SREF	4.3000	IN.
□	0.951					XHRP	2.4000	IN.
□	1.003					YHRP	0.0000	IN.
□	1.096					ZHRP	0.0000	IN.
		DATA HIST. CODE	6V9E			SCALE	0.0025	
M492-MSFC		AR11981-1	MODEL	B2W6V2	(E3411A)	24 AUG 71	PAGE	57

LONGITUDINAL STABILITY CHARACTERISTICS



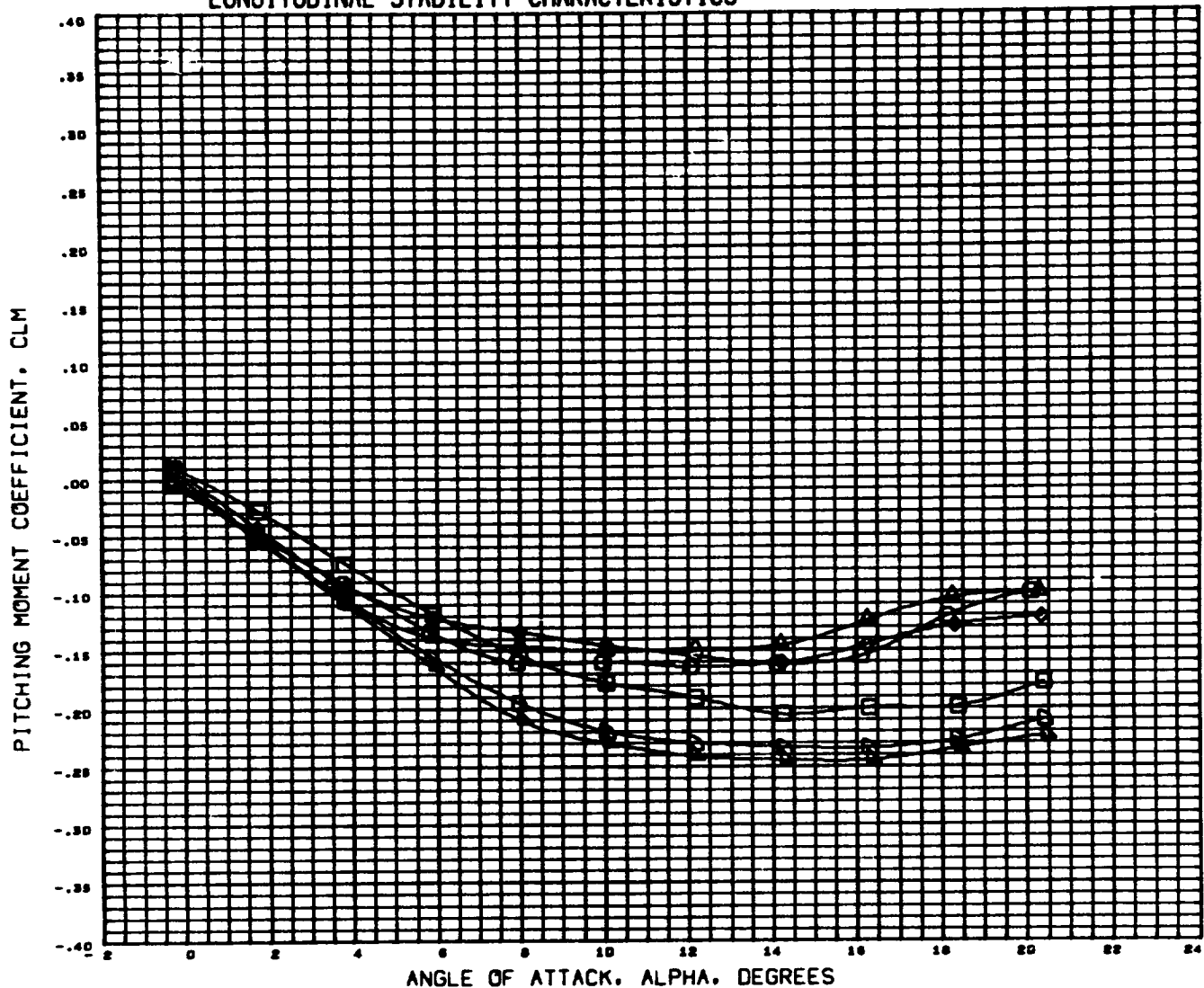
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.100	BETA	0.000	DEL	0.000
△	1.999	DER	0.000	ELEVTR	0.000
◇	3.400	AILRON	0.000		
□	4.999				

REFERENCE INFORMATION		
SREF	4.6225	Sq. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

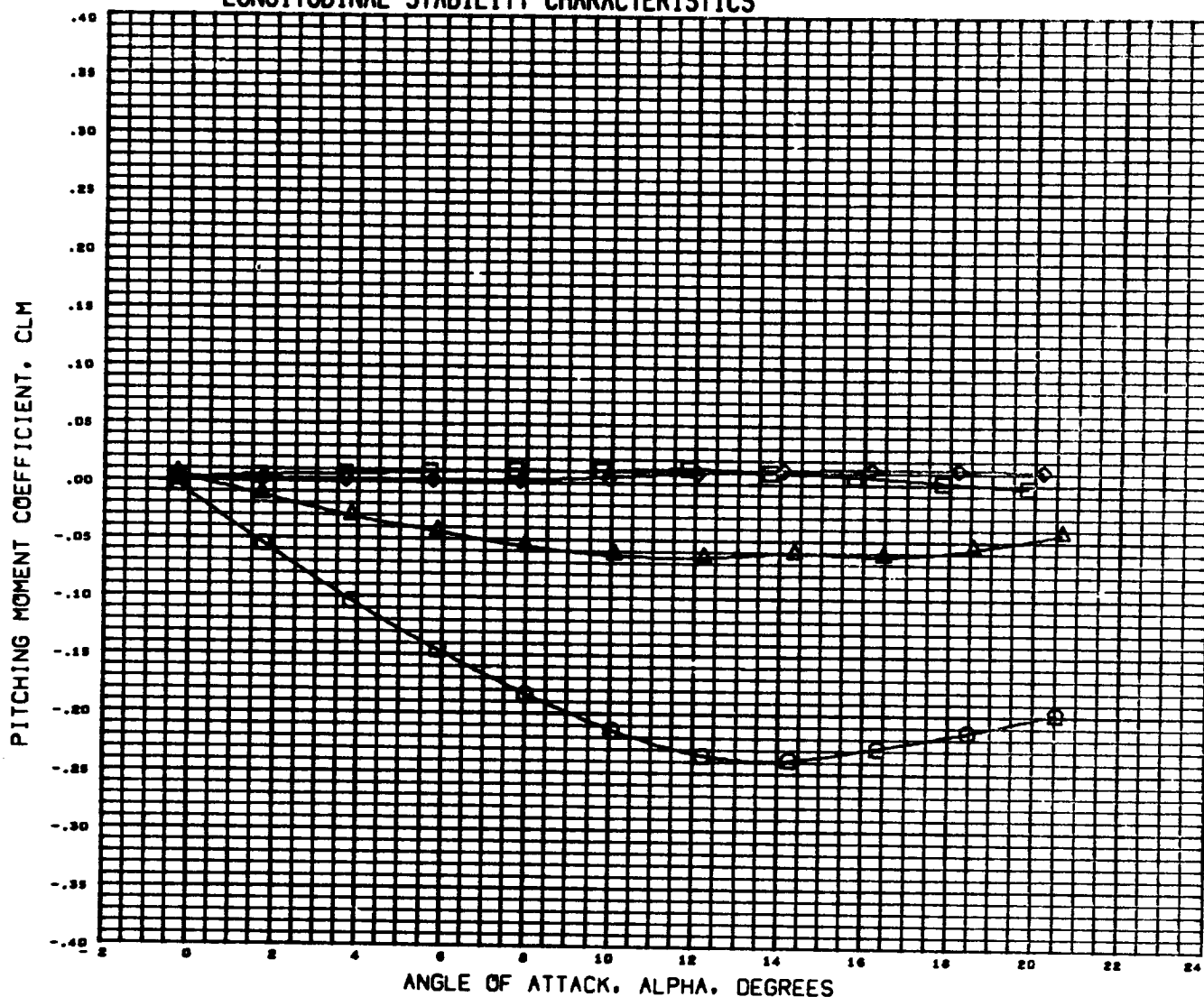
M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 58

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.598	BETA	0.000	DEL	0.000	SREF	4.8225	80. IN.
△	0.798	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	0.899	AILRON	0.000			SREF	4.3000	IN.
◇	0.991					INRP	5.4000	IN.
◇	1.003					INRP	0.0000	IN.
◇	1.096					INRP	0.0000	IN.
		DATA HIST. CODE	GVSE			SCALE	0.0025	

LONGITUDINAL STABILITY CHARACTERISTICS

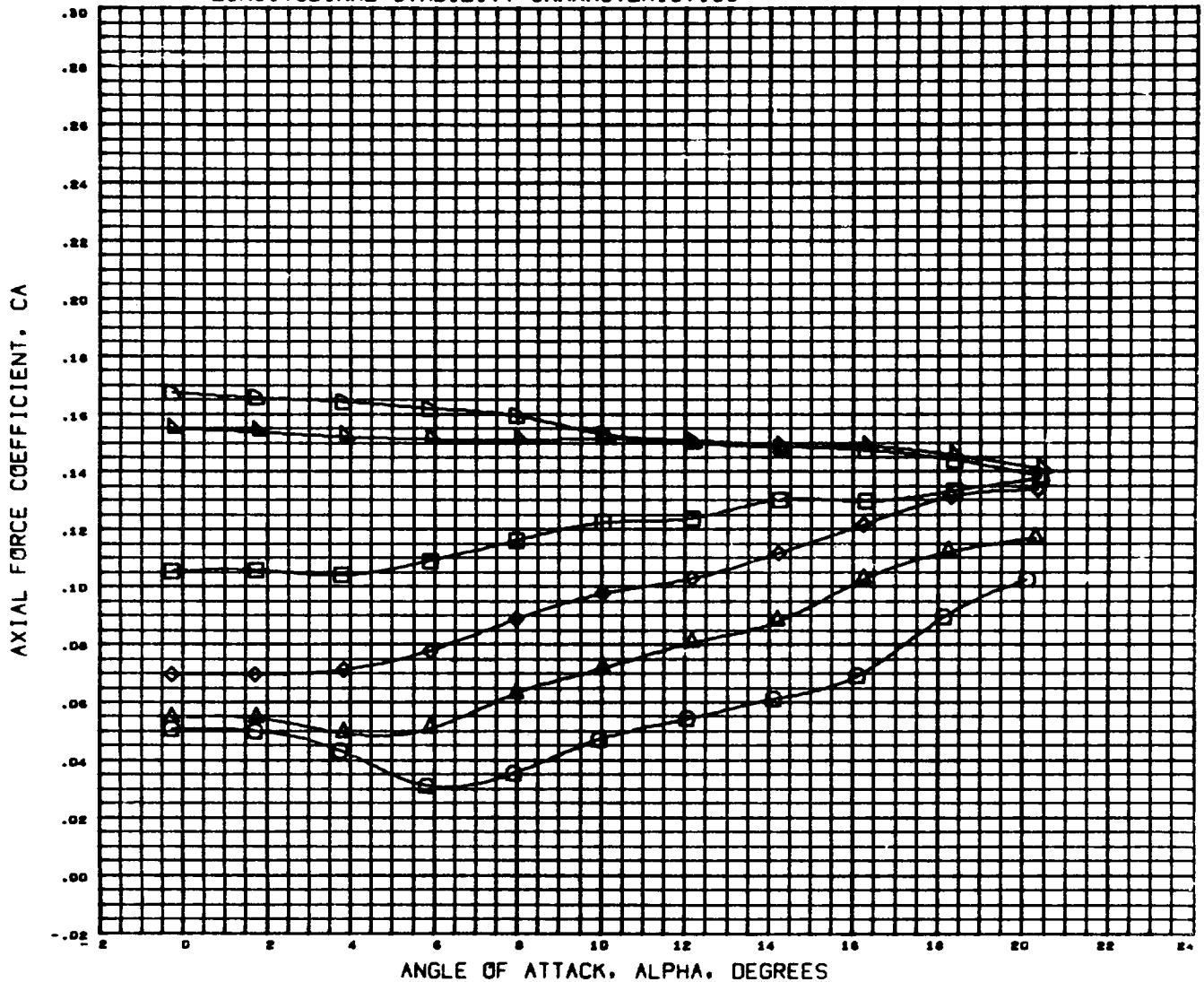


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
◇	1.100	BETA	0.000	DEL	0.000	SREF	4.6225	30. IN.
□	1.950	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
△	3.400	AIRCON	0.000			BREF	4.3000	IN.
○	4.950					XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 60

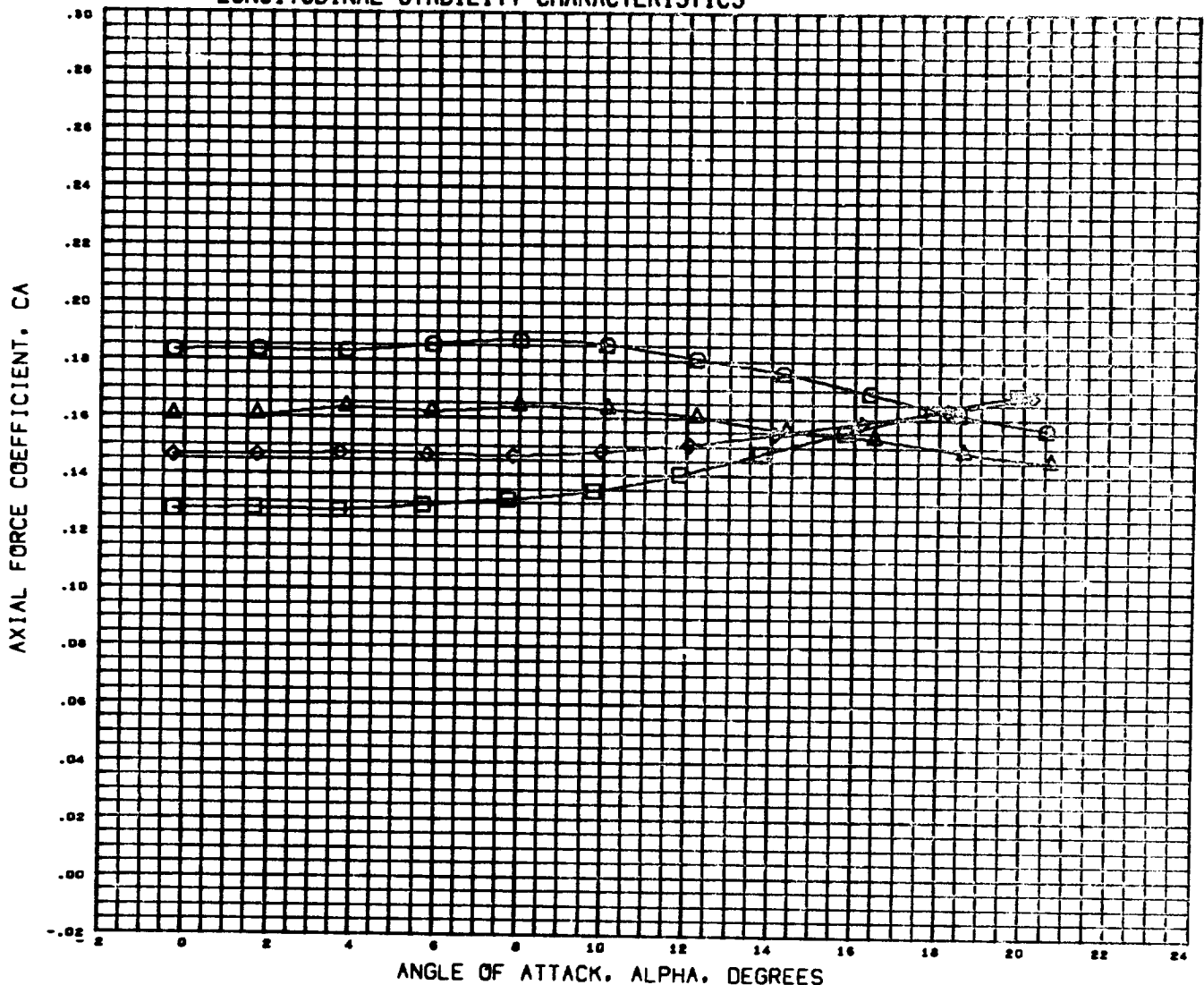
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.598	BETA	0.000	DEL	0.000		SREF	4.6225	50 IN.
□	0.798	DER	0.000	ELEVTR	0.000		LREF	4.3000	IN.
◇	0.899	AILROM	0.000				BREF	4.3000	IN.
△	0.951						XMRP	2.4000	IN.
●	1.003						YMRP	0.0000	IN.
⊙	1.056						ZMRP	0.0000	IN.
		DATA MIST. CODE	GV#E				SCALE	0.0025	

M492-MSFC AR1188-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 61

LONGITUDINAL STABILITY CHARACTERISTICS



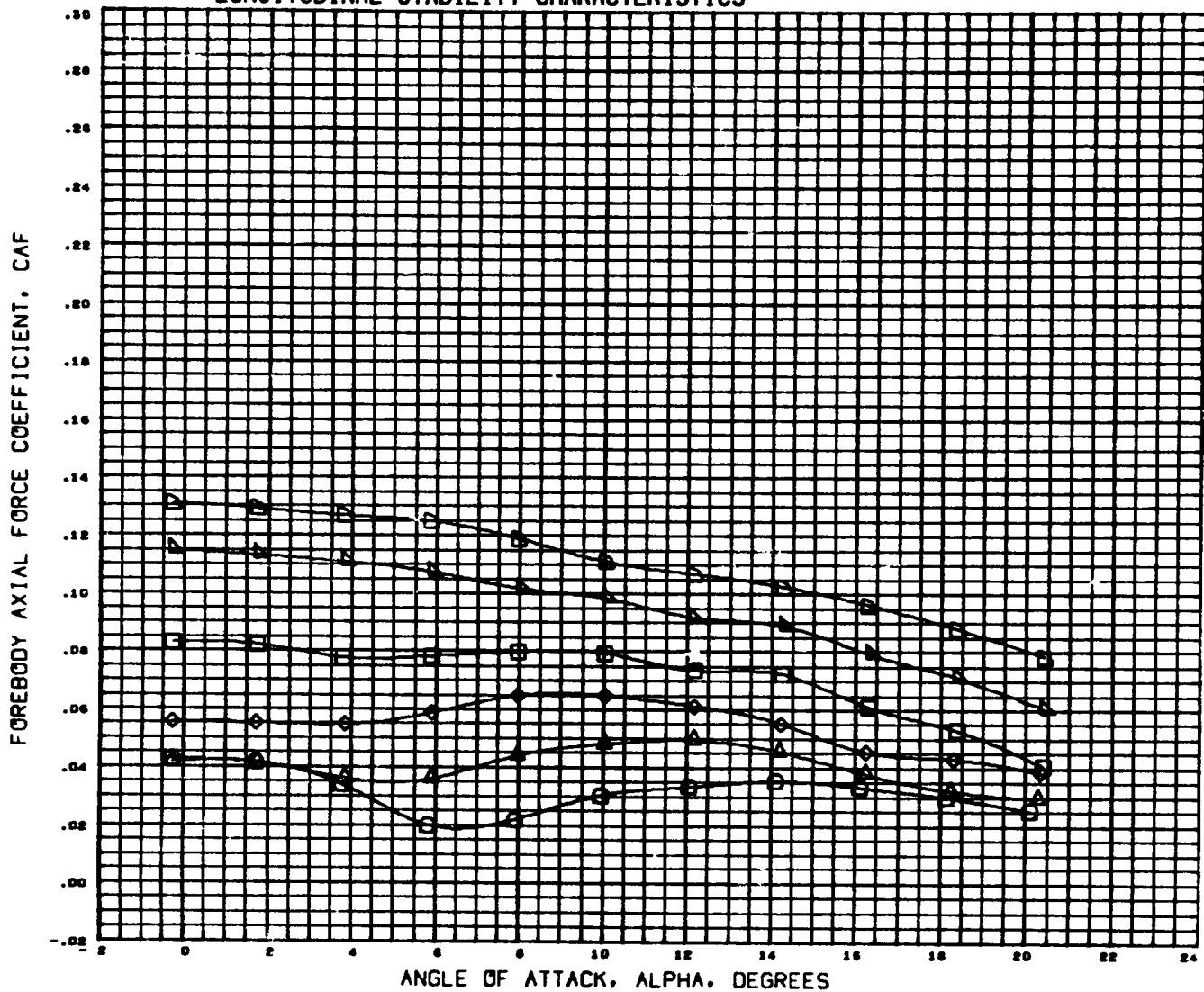
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.100	BETA	0.000	DEL	0.000
△	1.950	DER	0.000	ELEVTR	0.000
◇	3.400	AILRON	0.000		
□	4.950				

REFERENCE INFORMATION		
SREF	4.6225	58. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 62

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
◇	0.598	BETA	0.000	DEL	0.000	BREF	4.6225	50. IN.
◇	0.798	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	0.899	AILRON	0.000			BREF	4.3000	IN.
◇	0.951					XMRP	2.4000	IN.
◇	1.003					YMRP	0.0000	IN.
◇	1.096					ZMRP	0.0000	IN.
		DATA M781. CODE	GV#E			SCALE	0.0025	

M492-MSFC

AR11981-1

MODEL

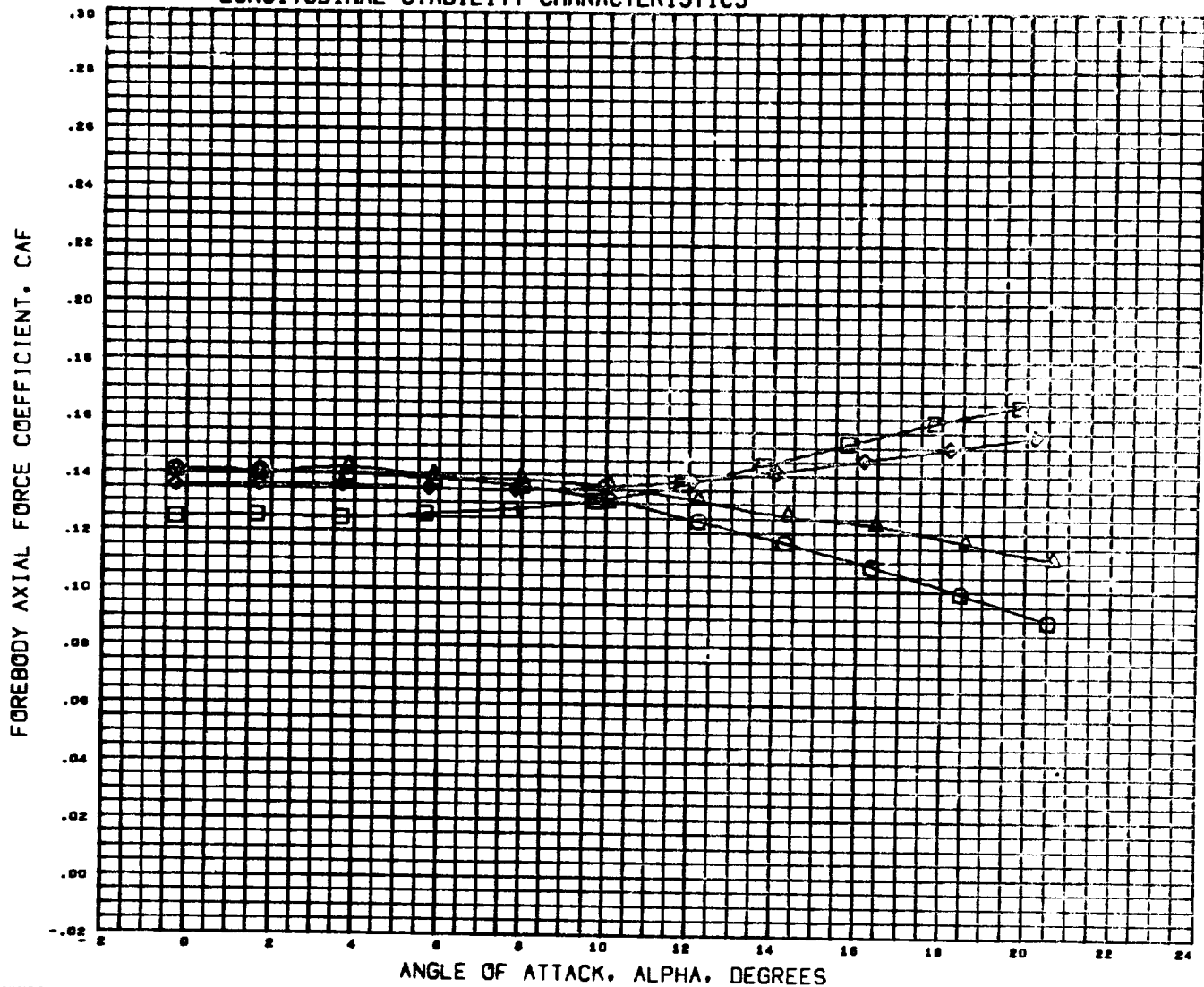
B2W6V2

(E3411A) 24 AUG 71

PAGE

63

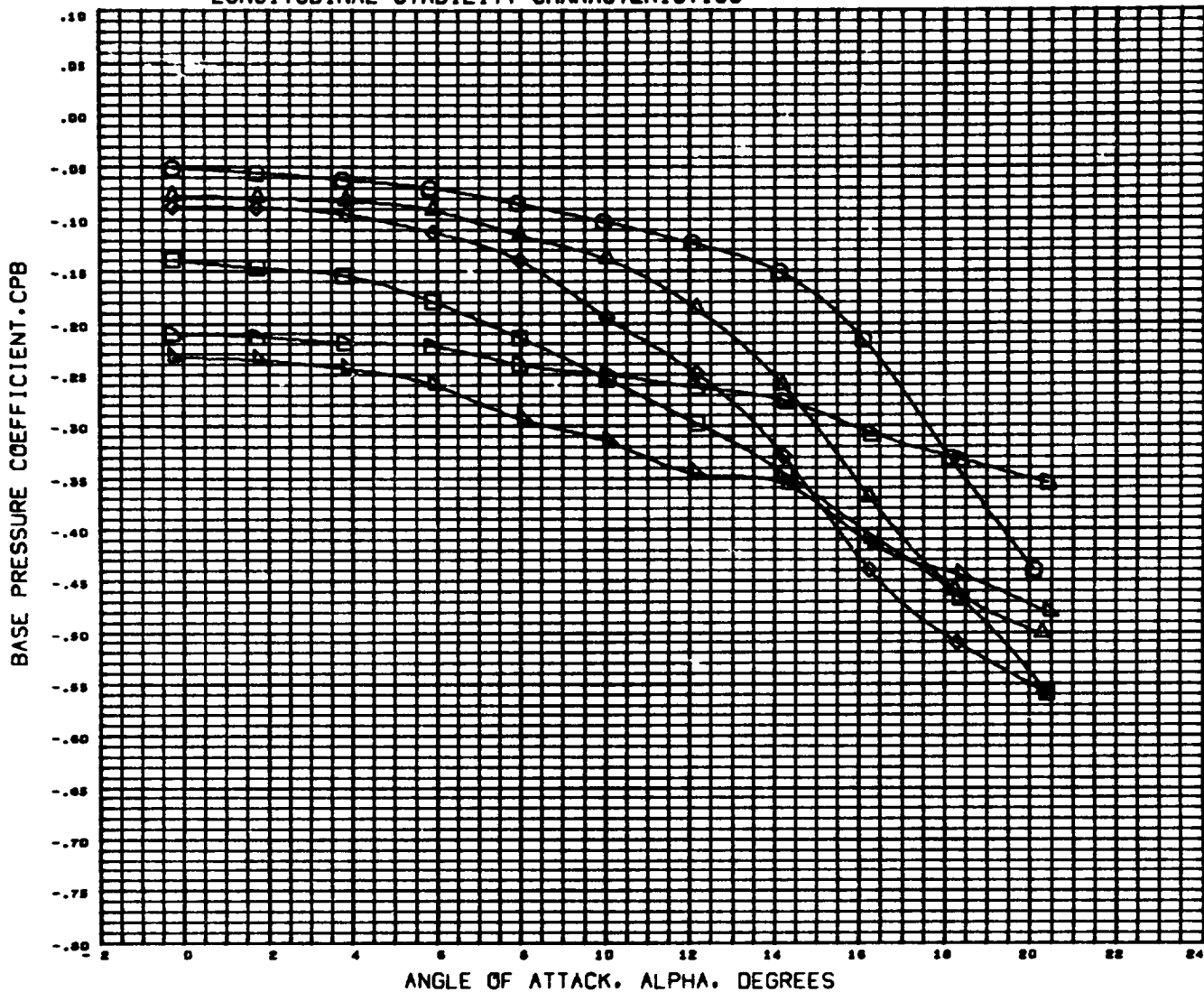
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR	SCALE	SREF	LREF	BREF
○	1.188	0.000	0.000	0.000	0.000	4.6225	4.3000	4.3000
△	1.959	0.000	0.000	0.000	0.000	4.3000	4.3000	4.3000
◇	3.480	0.000	0.000	0.000	0.000	2.4000	0.0000	0.0000
◻	4.959	0.000	0.000	0.000	0.000	0.0000	0.0000	0.0025

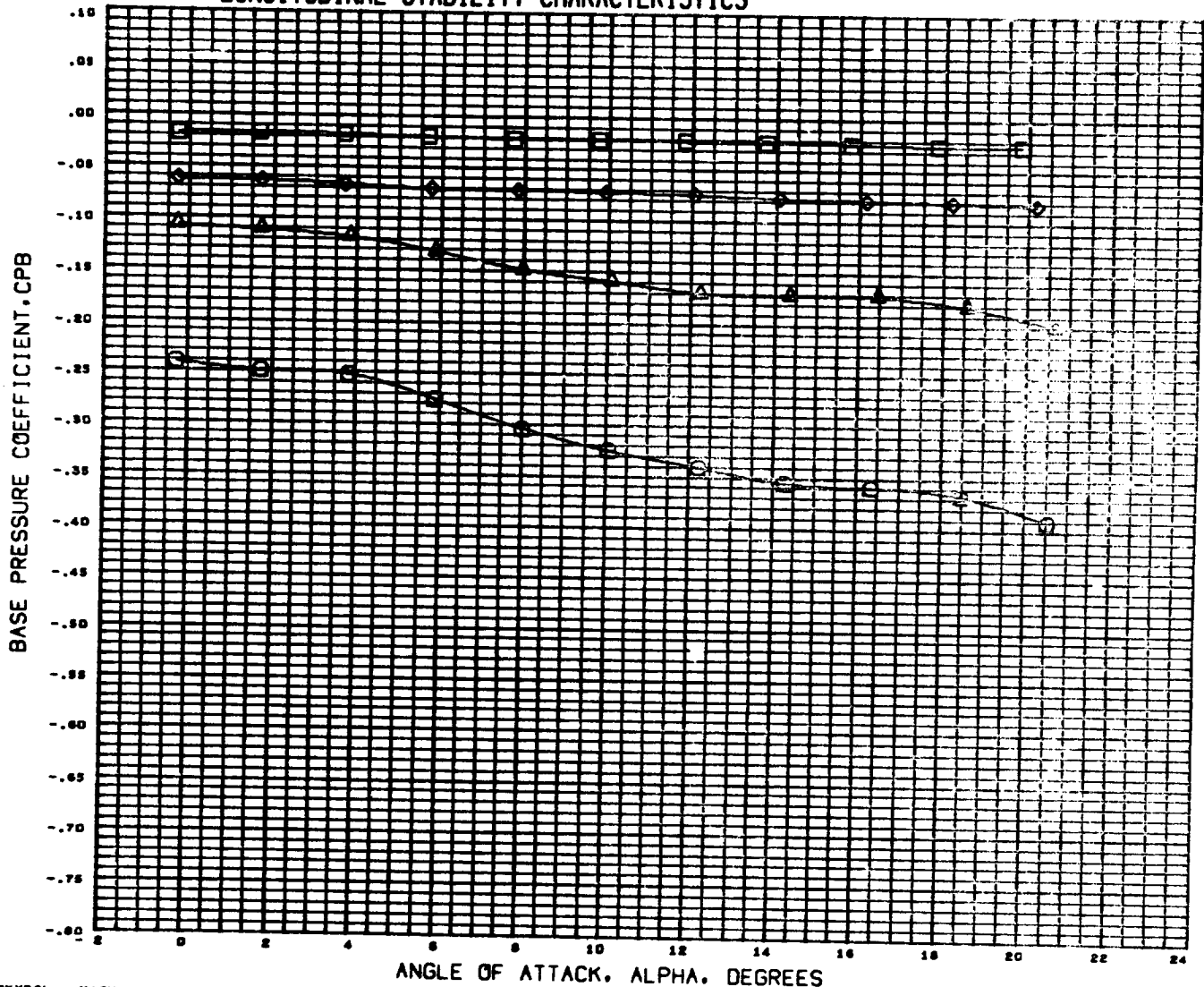
DATA HIST. CODE 6V8E

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES			REFERENCE INFORMATION		
◇	0.596	BETA	0.000	DEL	0.000	SREF	4.6225	86. IN.
◇	0.796	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
◇	0.899	AILRON	0.000			SREF	4.3000	IN.
◇	0.951					XMRP	2.4000	IN.
◇	1.003					YMRP	0.0000	IN.
◇	1.096					ZMRP	0.0000	IN.
		DATA HIST. CODE	GV#E			SCALE	0.0025	

LONGITUDINAL STABILITY CHARACTERISTICS

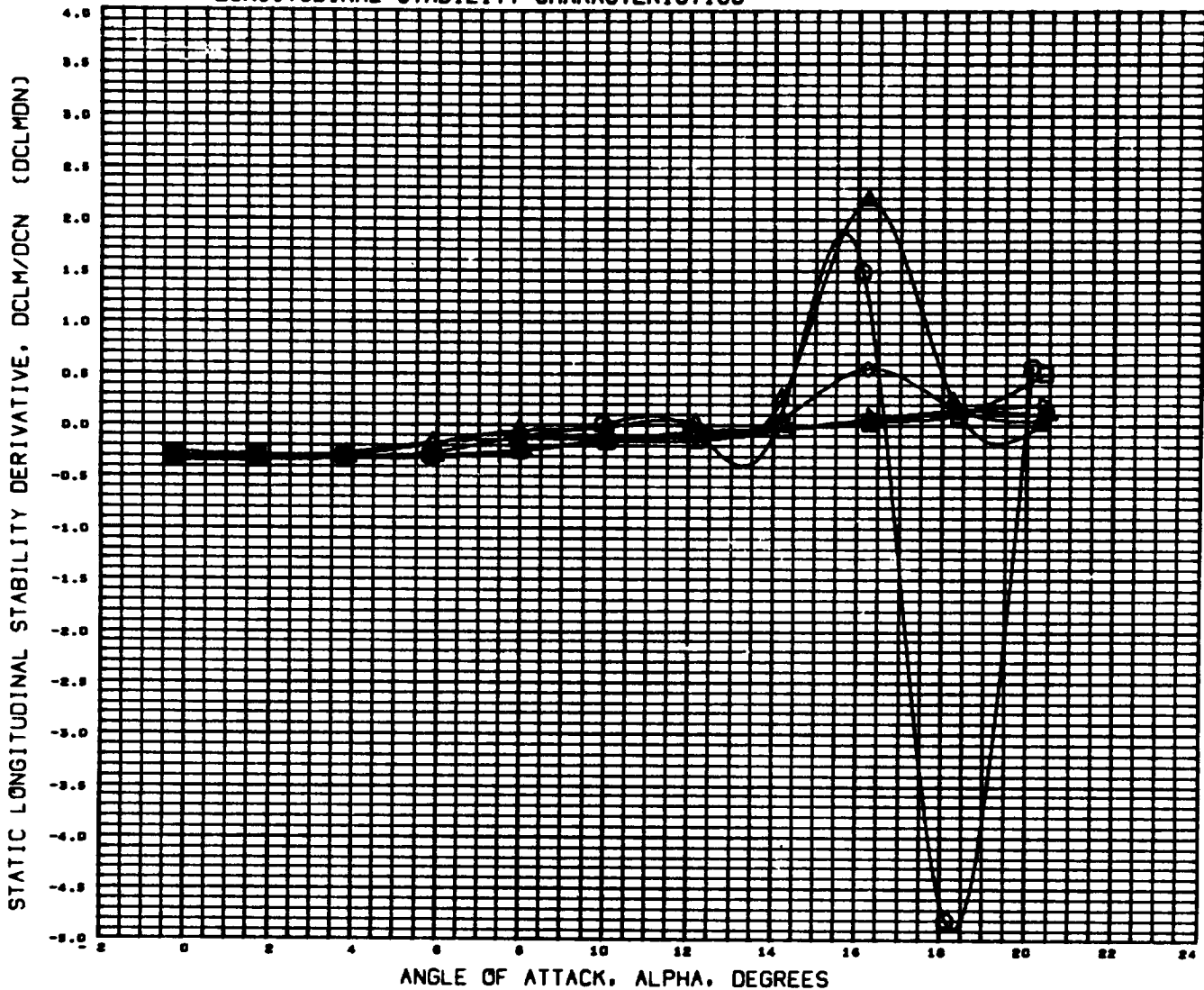


SYMBOL	MACH	PARAMETRIC VALUES			
△	1.188	BETA	0.000	DEL	0.000
◇	1.959	DER	0.000	ELEVTR	0.000
◇	3.480	AILRON	0.000		
□	4.859				

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

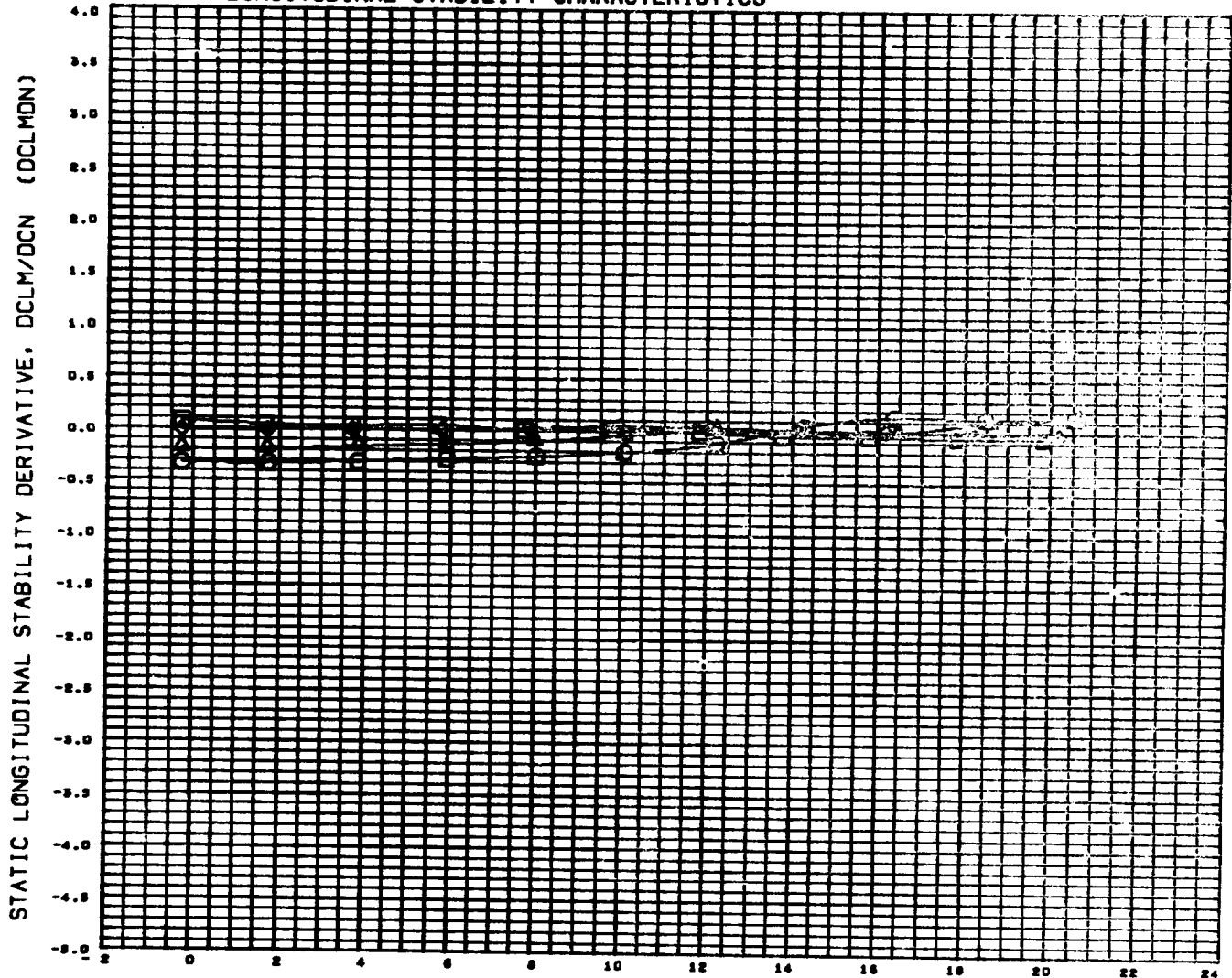
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
D4000	0.599	BETA	0.000	DEL	0.000	SREF	4.6225	88.1N.
	0.799	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
	0.899	AILRON	0.000			BREF	4.3000	IN.
	0.951					XNRP	2.4000	IN.
	1.003					YNRP	0.0000	IN.
D4000	1.099	DATA HIST. CODE	6V8E			ZNRP	0.0000	IN.
						SCALE	0.0025	

M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 67

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL

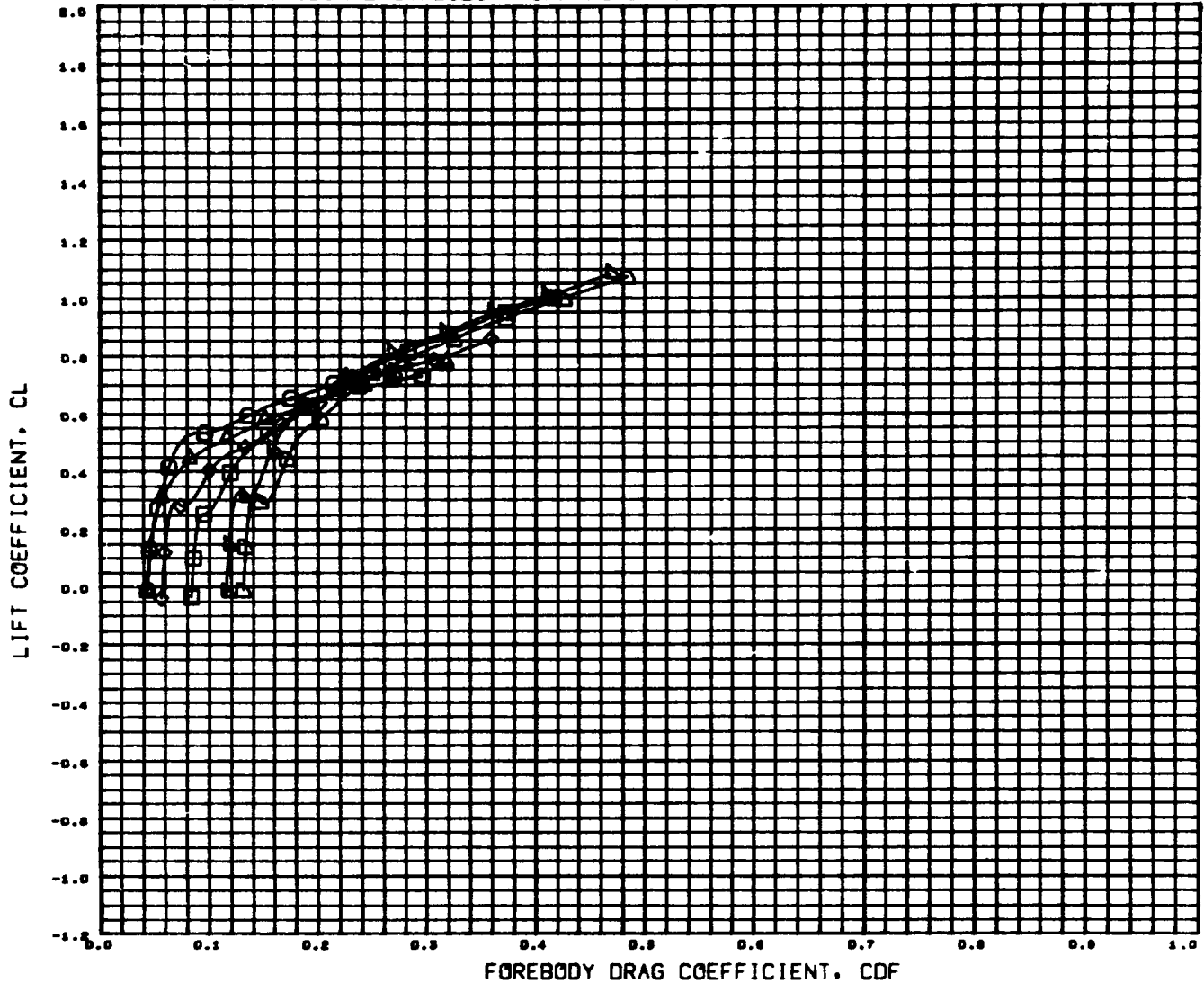
MACH
 1.188
 1.959
 3.480
 4.959

PARAMETRIC VALUES
 BETA 0.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION	
○	0.998	BETA	0.000	DEL	0.000	SREF	4.6225 88.1N.
△	0.798	DER	0.000	ELEVTR	0.000	LREF	4.3000 IN.
□	0.699	AILRON	0.000			SREF	4.3000 IN.
◇	0.551					XMRP	2.4000 IN.
◇	1.003					YMRP	0.0000 IN.
◇	1.096					ZMRP	0.0000 IN.
		DATA HIST. CODE	GV9F			SCALE	0.0025

M492-MSFC

AR11981-1

MODEL

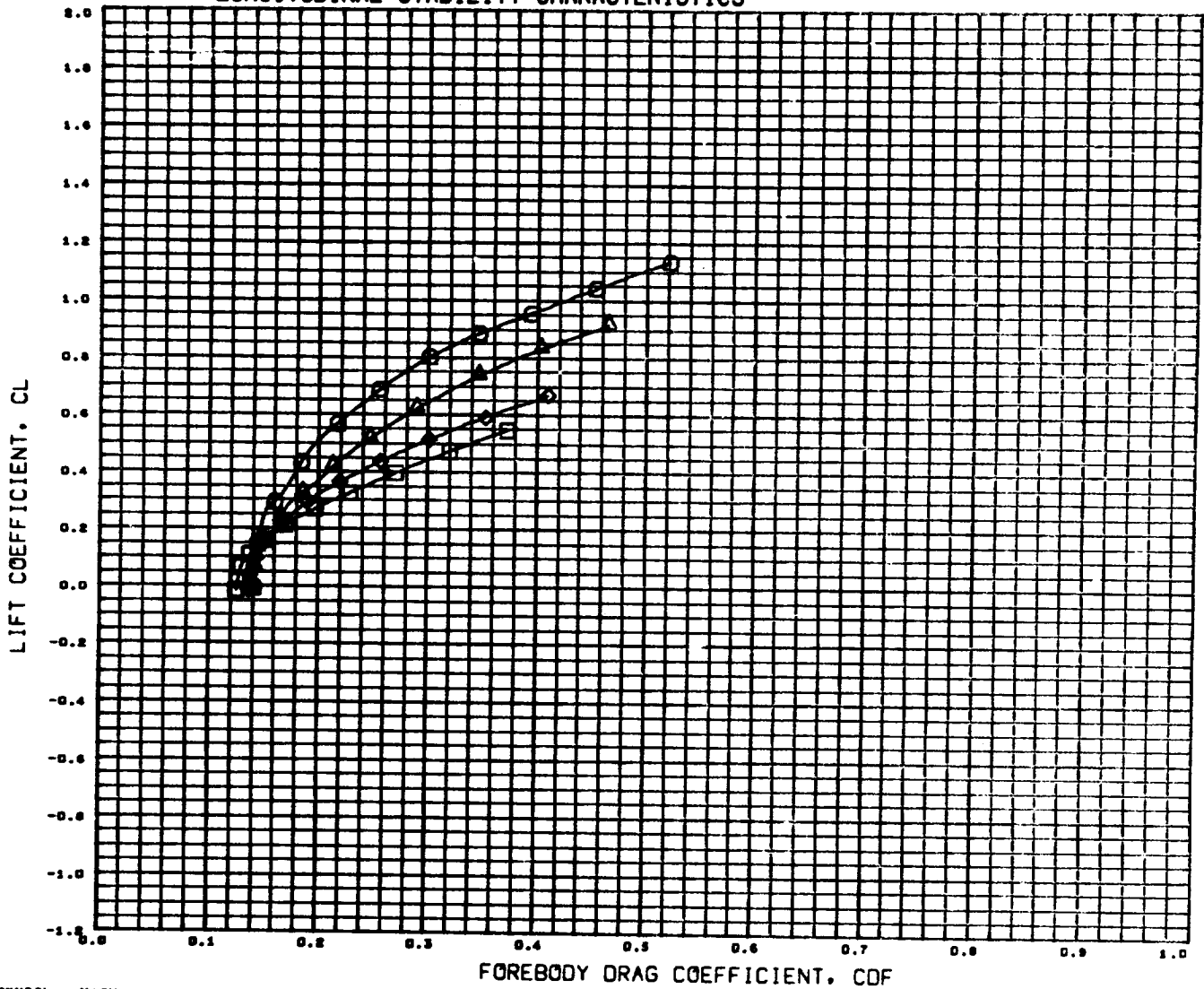
B2W6V2

(E3411A) 24 AUG 71

PAGE

69

LONGITUDINAL STABILITY CHARACTERISTICS



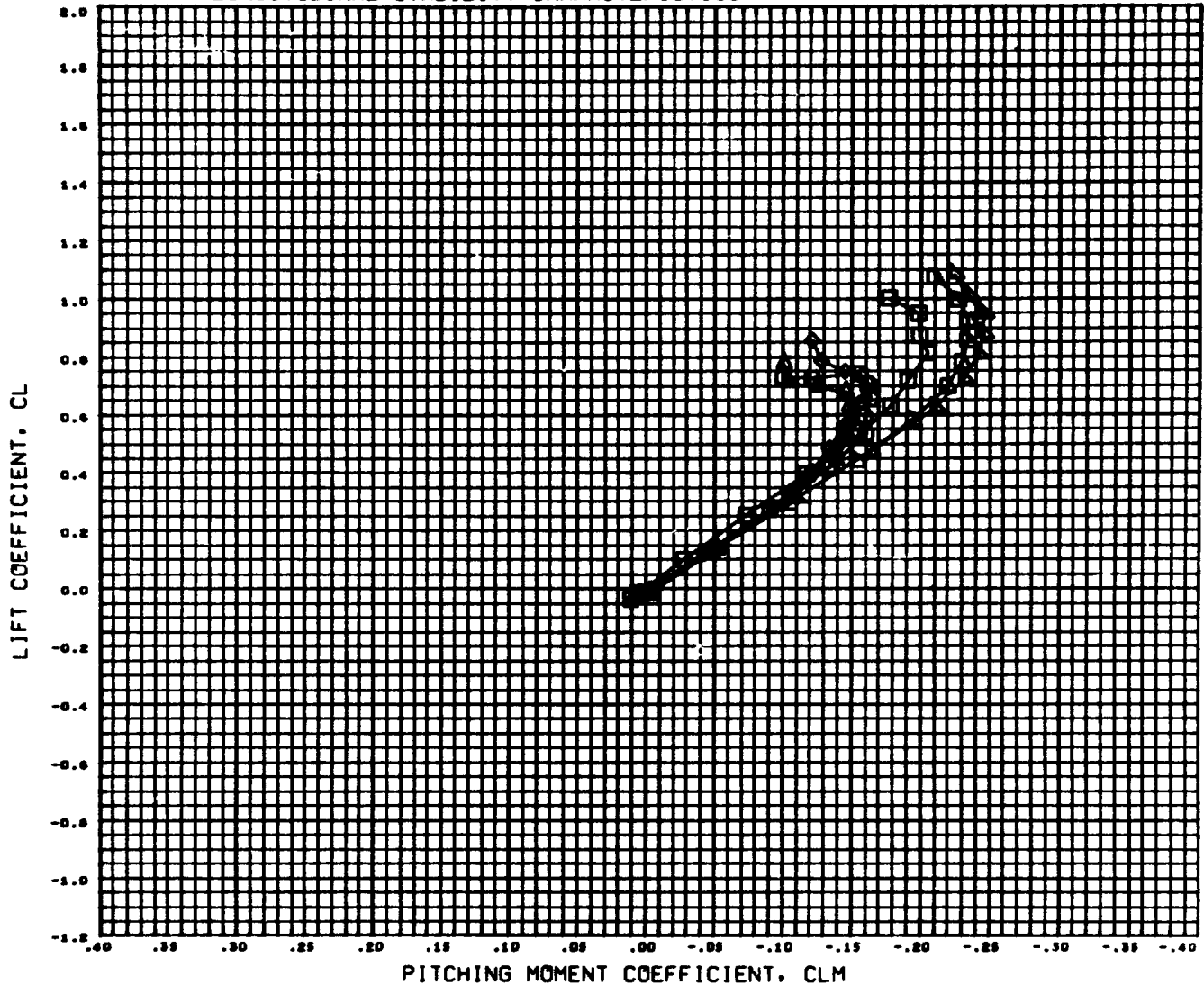
SYMBOL	MACH	PARAMETRIC VALUES			
○	1.188	BETA	0.000	DEL	0.000
△	1.959	DER	0.000	ELEVTR	0.000
□	3.480	AILRON	0.000		
□	4.959				

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 70

LONGITUDINAL STABILITY CHARACTERISTICS

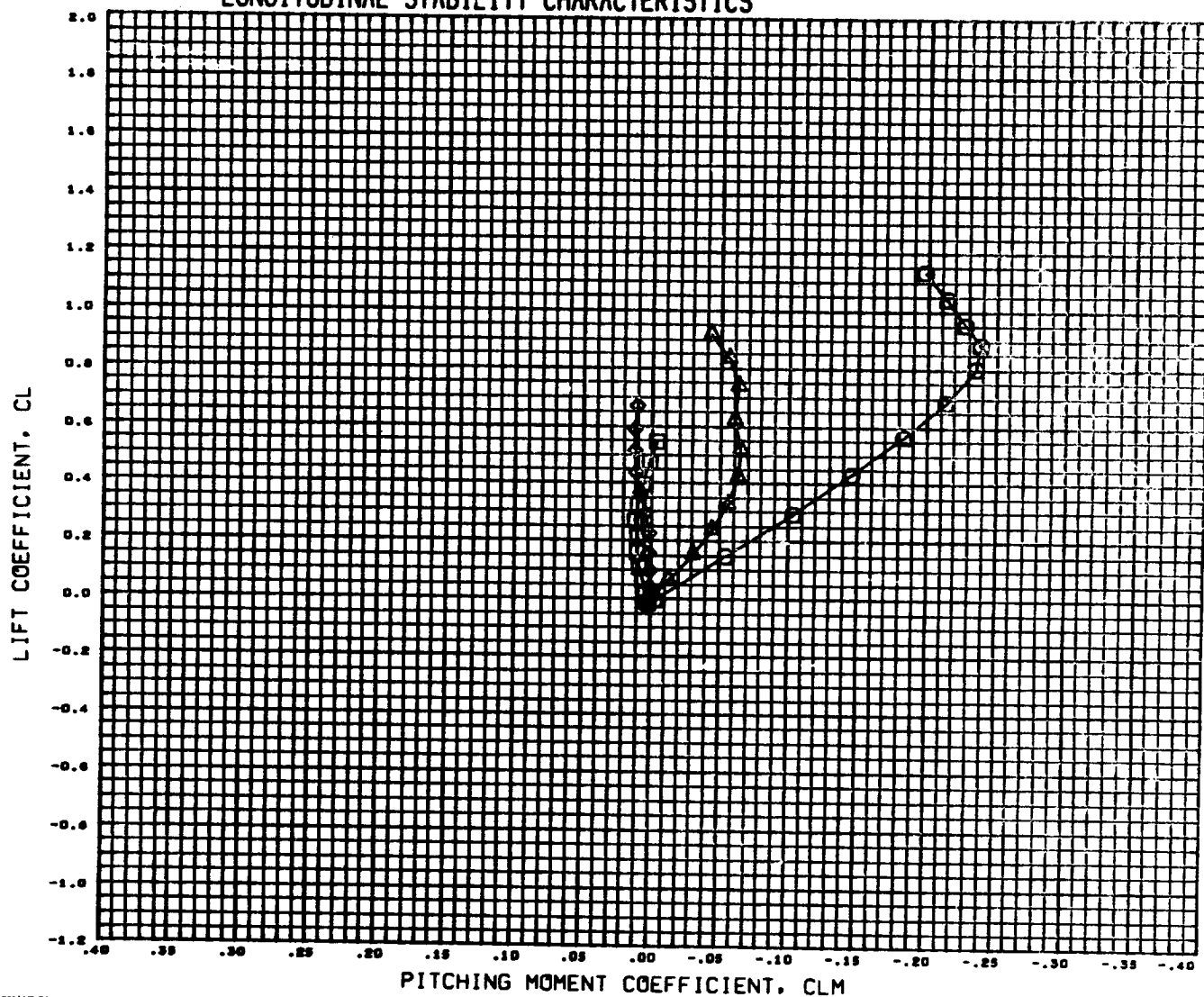


SYMBOL	PARAMETRIC VALUES					REFERENCE INFORMATION		
	MACH	BETA	DEL	ELEVTR		BREF		
○	0.598	0.000	0.000	0.000		LREF	4.3000	IN.
◇	0.798	0.000	0.000	0.000		BREF	4.3000	IN.
□	0.899	AILRON	0.000			XMRP	2.4000	IN.
△	0.991					YMRP	0.0000	IN.
▽	1.003					ZMRP	0.0000	IN.
◇	1.096	DATA HIST. CODE	6V0E			SCALE	0.0025	

M492-MSFC AR11981-1 MODEL B2W6V2 (E3411A) 24 AUG 71 PAGE 71

3 ①

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL
○
△
◇
□

MACH
1.300
1.959
3.480
4.959

PARAMETRIC VALUES
BETA 0.000 DEL 0.000
DER 0.000 ELEVTR 0.000
AILRON 0.000

REFERENCE INFORMATION
SREF 4.6225 50 IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC

AR11981-1

MODEL

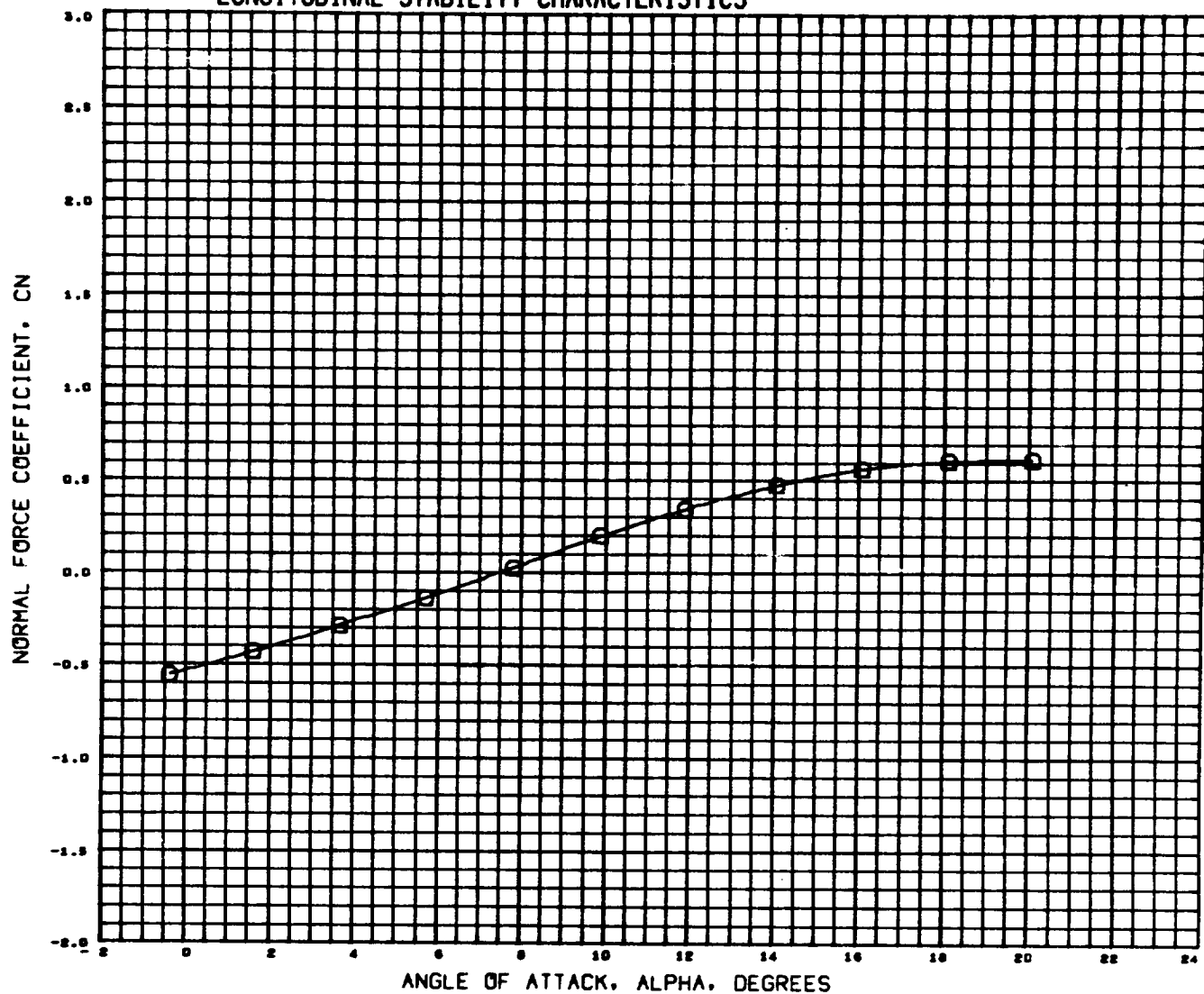
B2W6V2

(E3411A) 24 AUG 71

PAGE

72

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL \square MACH 0.600
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

DATA HIST. CODE 6V9E

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XWRP 2.4000 IN.
 YWRP 0.0000 IN.
 ZWRP 0.0000 IN.
 SCALE 0.0025

M492-MSFC

AR11981-1

MODEL

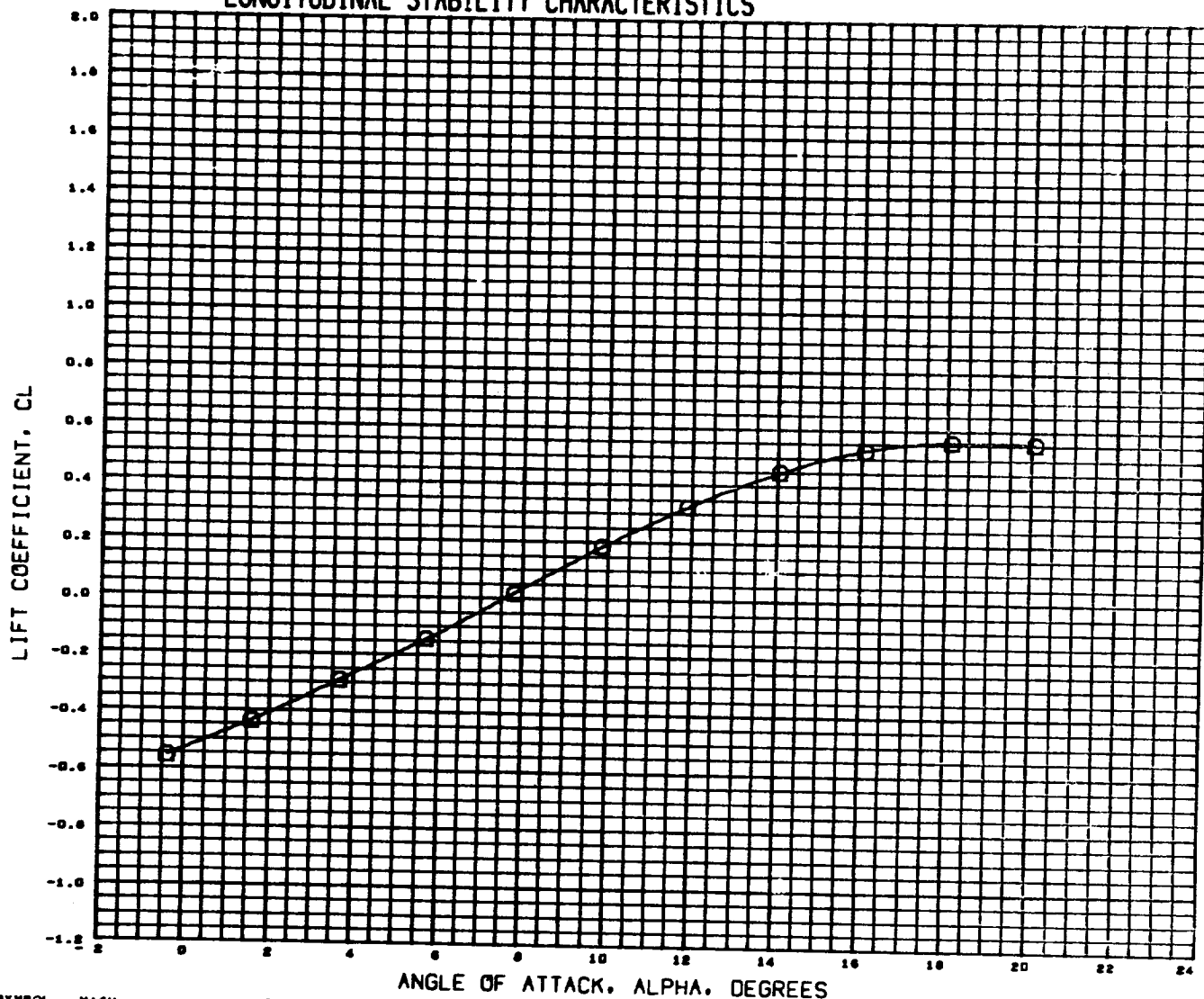
B2W6V2

(E3414A) 24 AUG 71

PAGE

73

LONGITUDINAL STABILITY CHARACTERISTICS



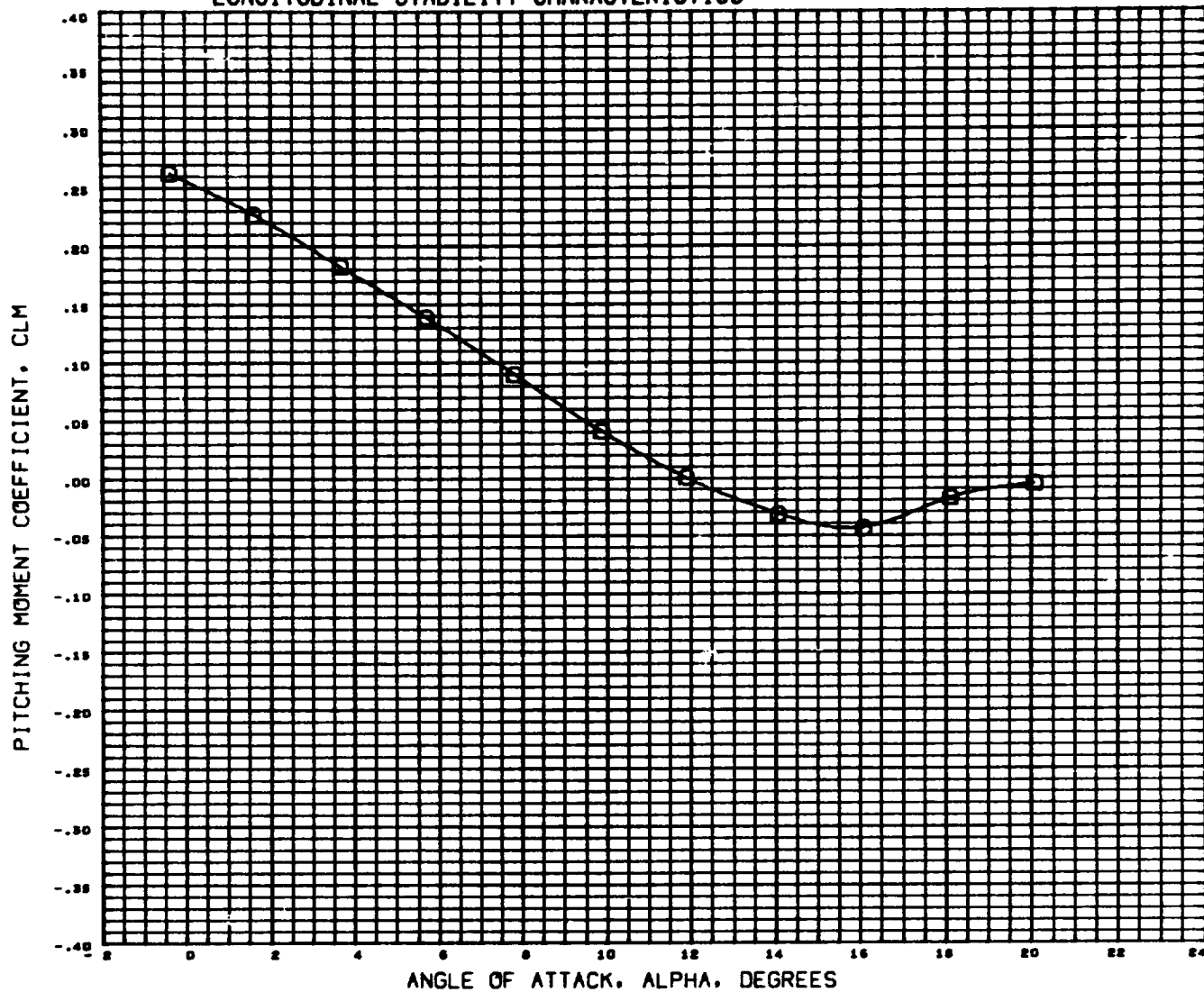
SYMBOL \bigcirc MACH 0.600
 PARAMETRIC VALUES
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 30 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V#E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 74

LONGITUDINAL STABILITY CHARACTERISTICS



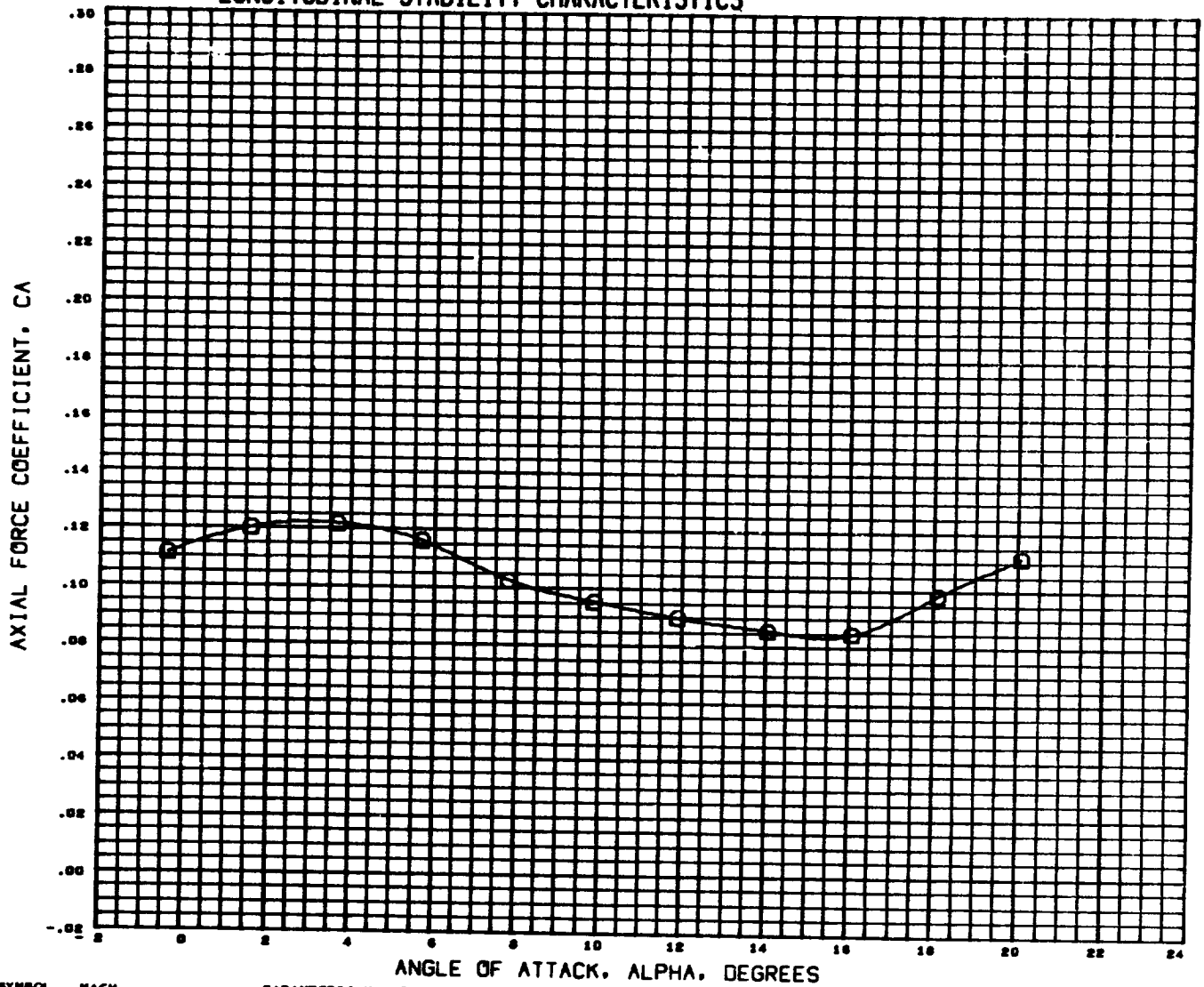
SYMBOL O MACH 0.000
 PARAMETRIC VALUES
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 50 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V9E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 75

LONGITUDINAL STABILITY CHARACTERISTICS



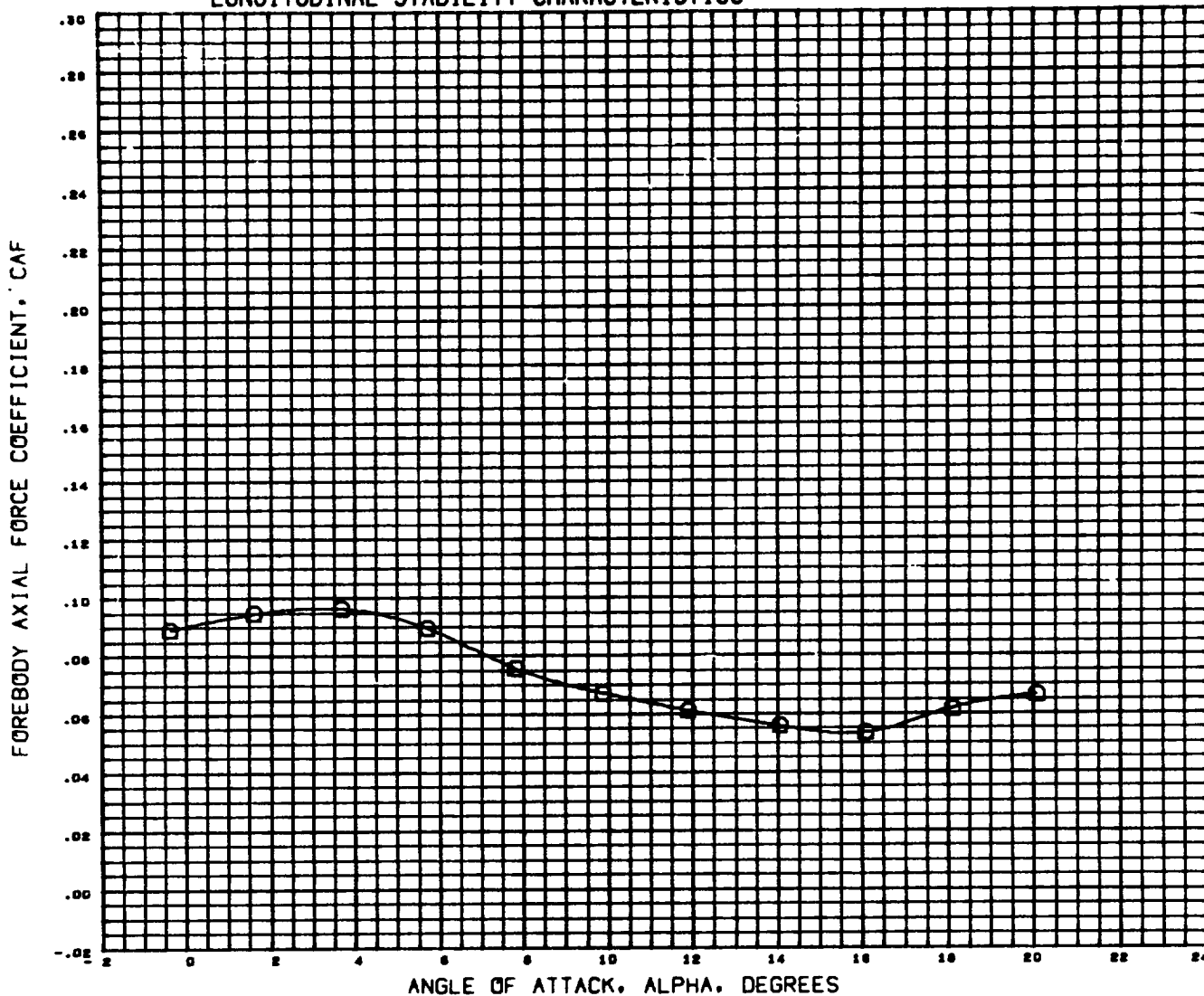
SYMBOL \square MACH 0.600
 PARAMETRIC VALUES
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 SREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 76

LONGITUDINAL STABILITY CHARACTERISTICS



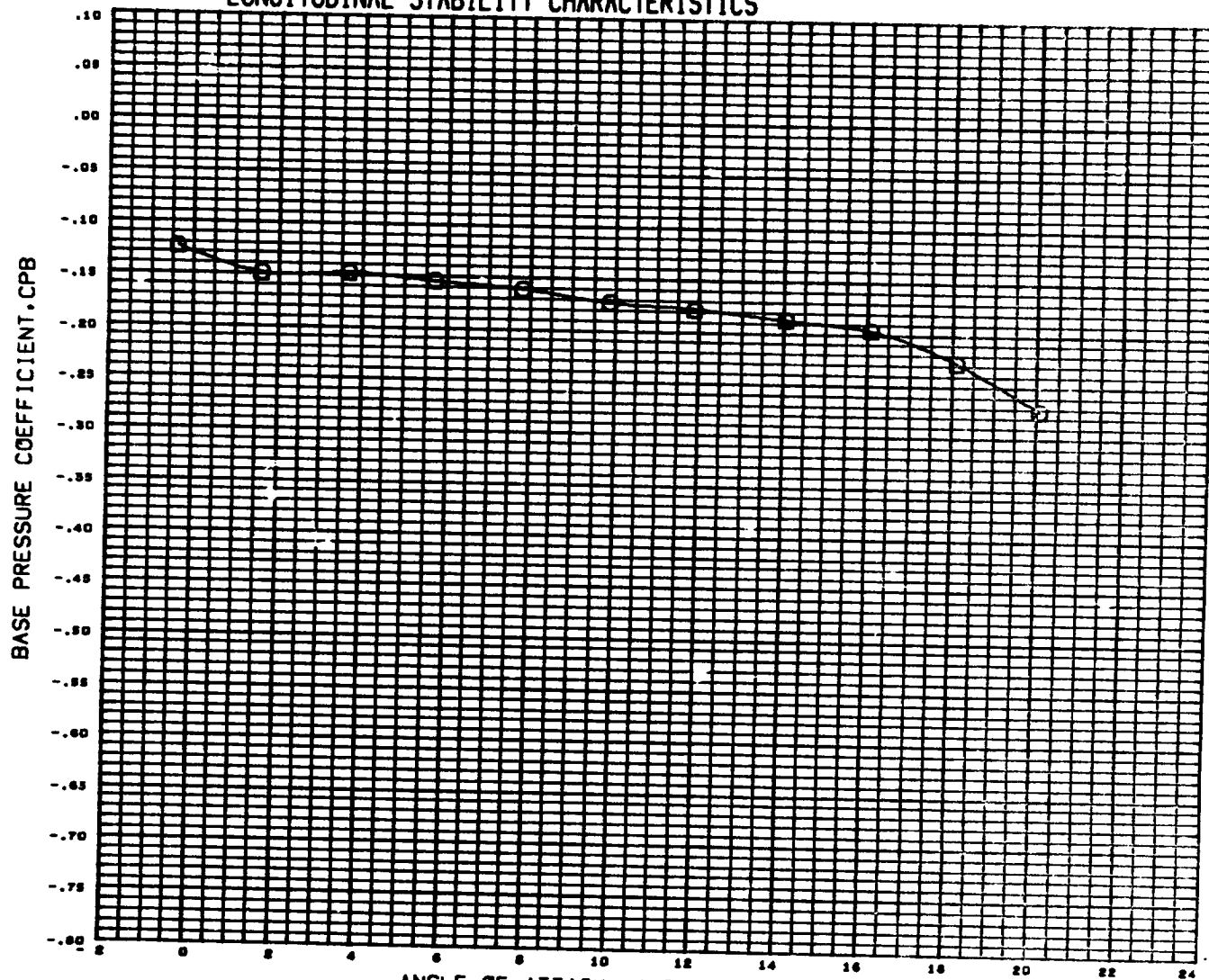
SYMBOL \square MACH 0.800
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE GV9E

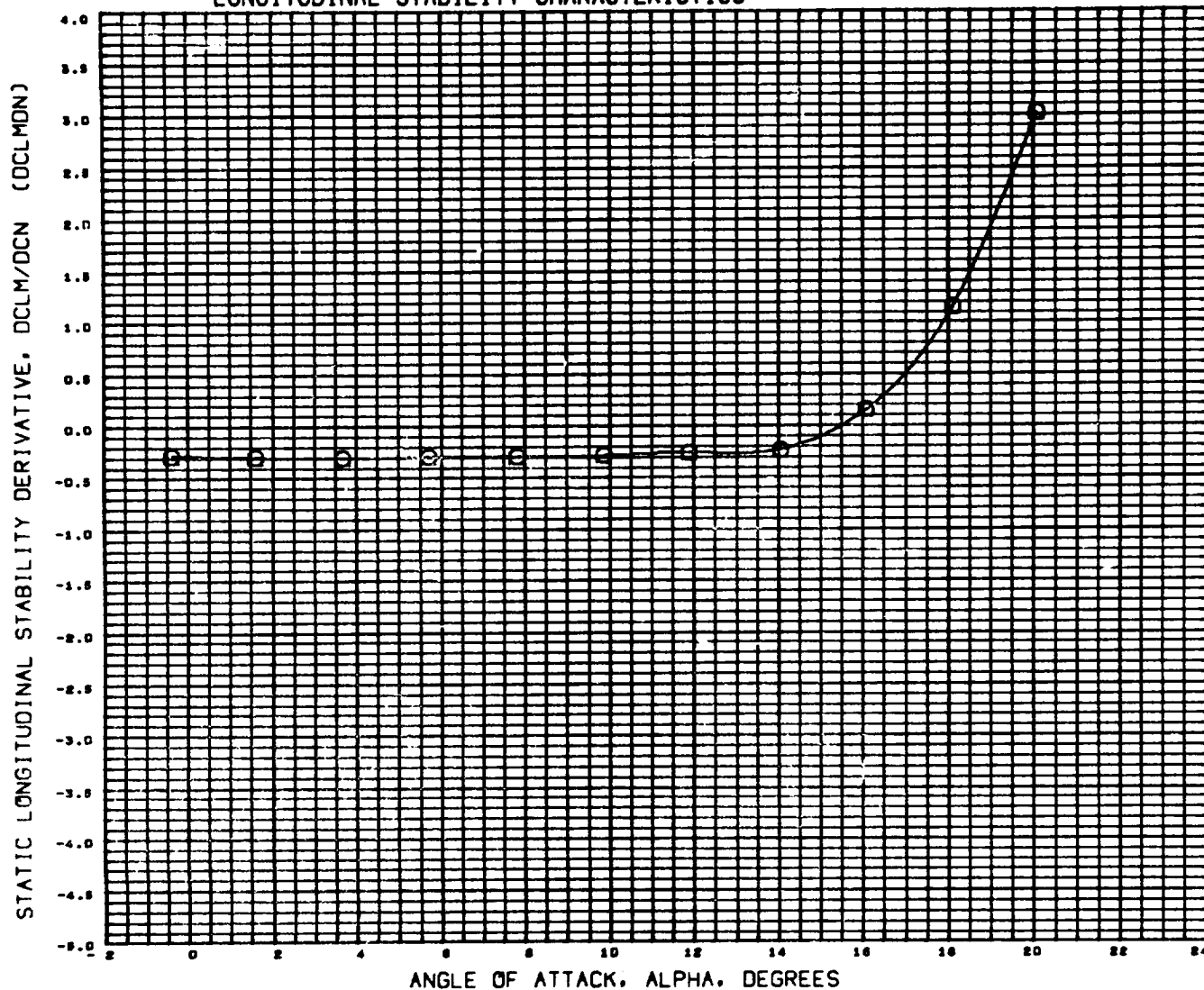
M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 77

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
O		0.000		BETA	0.000	DEL	- 30.000	SREF	4.6225	50. IN.
				DER	- 30.000	ELEVTR	- 30.000	LREF	4.3000	IN.
				AILRON	0.000			BREF	4.3000	IN.
								XMRP	2.4000	IN.
								YMRP	0.0000	IN.
								ZMRP	0.0000	IN.
								SCALE	0.0025	
				DATA HIST. CODE	6V0E					
M492-MSFC		AR1198I-1		MODEL		B2W6V2		(E3414A)		24 AUG 71
										PAGE 78

LONGITUDINAL STABILITY CHARACTERISTICS



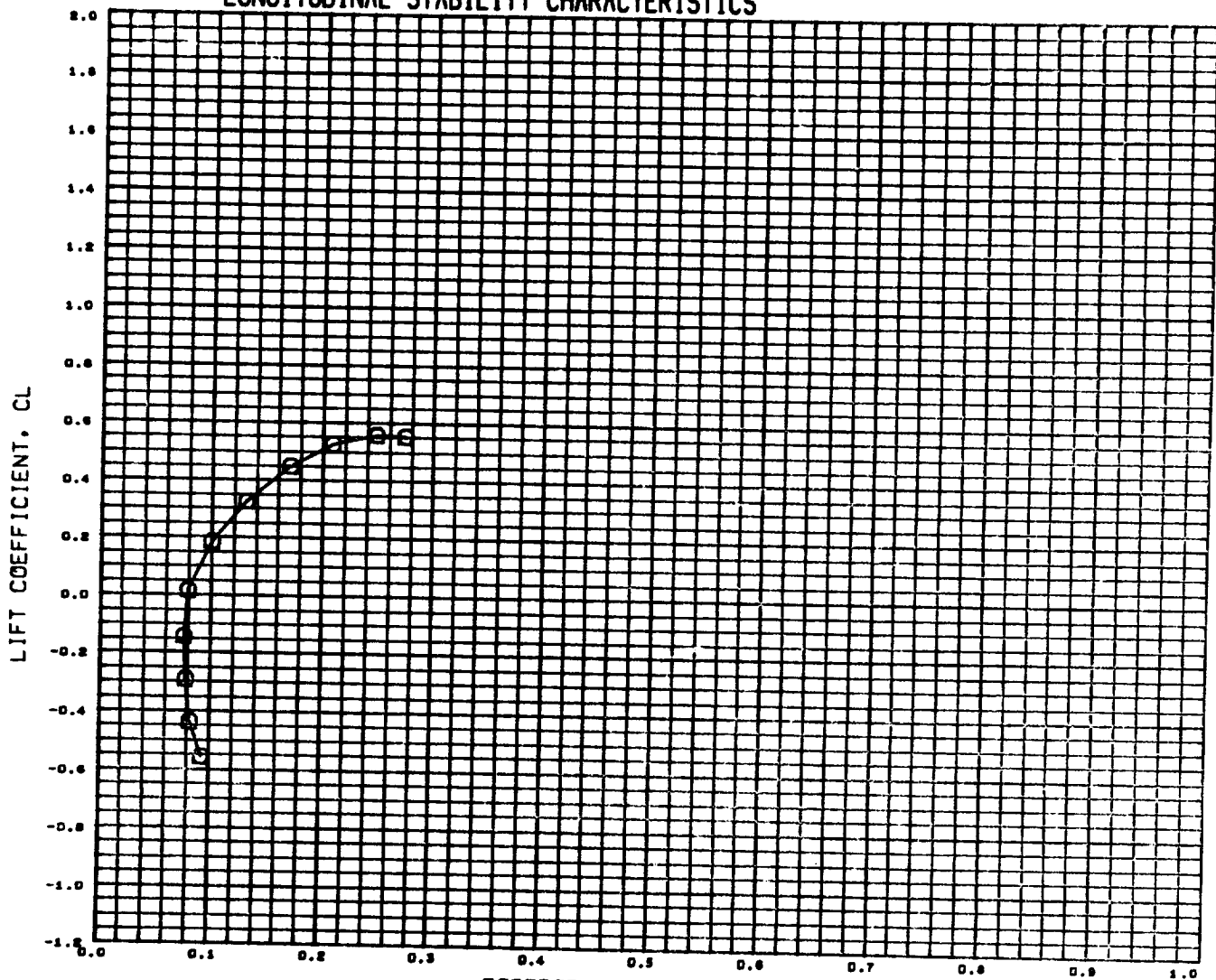
SYMBOL MACH PARAMETRIC VALUES
O 0.600 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRCH 0.000

REFERENCE INFORMATION
BREF 4.6225 30. IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XNRP 2.4000 IN.
YNRP 0.0000 IN.
ZNRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE 6V9E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 79

LONGITUDINAL STABILITY CHARACTERISTICS



FOREBODY DRAG COEFFICIENT, CDF

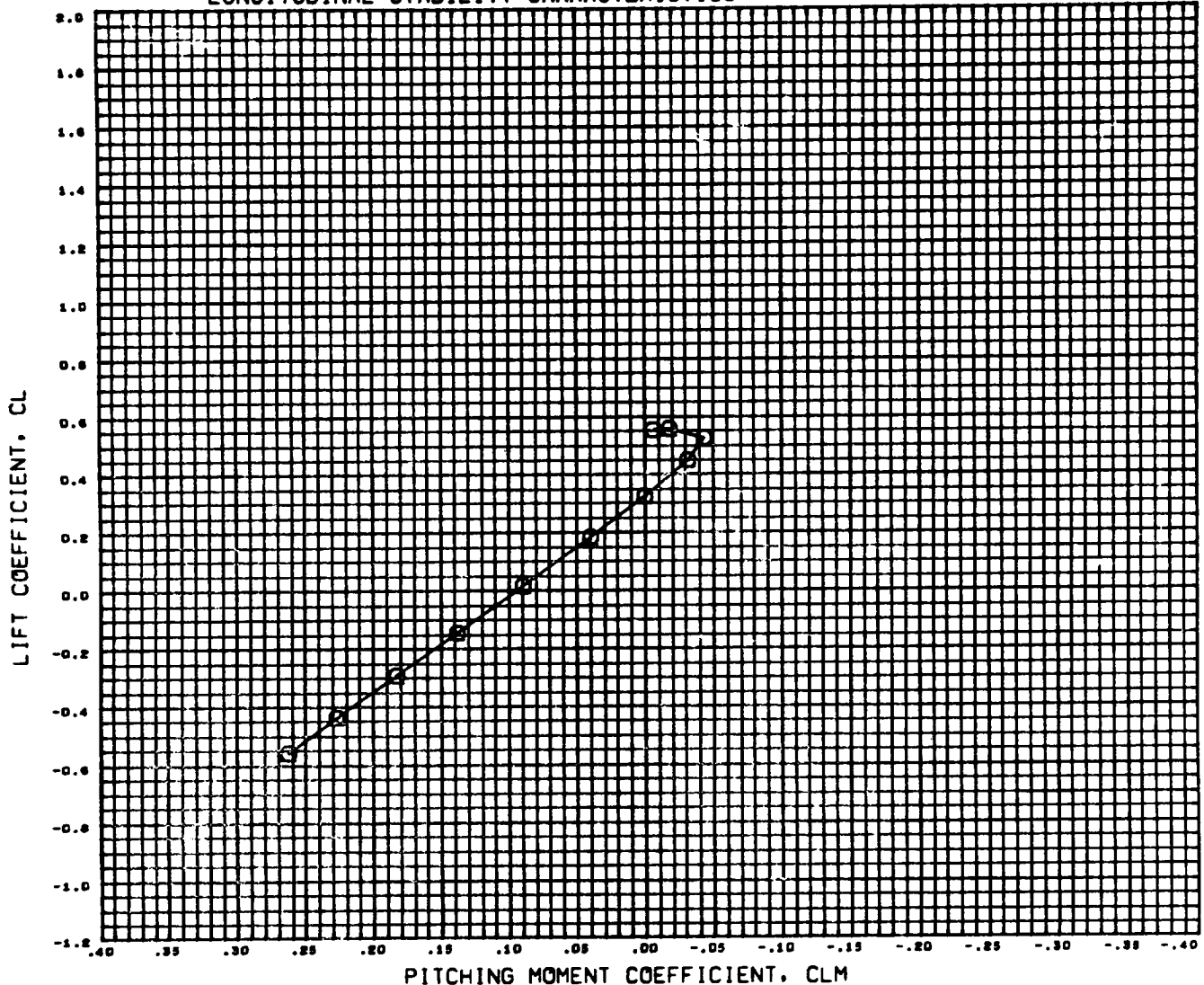
SYMBOL \bigcirc MACH 0.600
 PARAMETRIC VALUES
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 50 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 80

LONGITUDINAL STABILITY CHARACTERISTICS



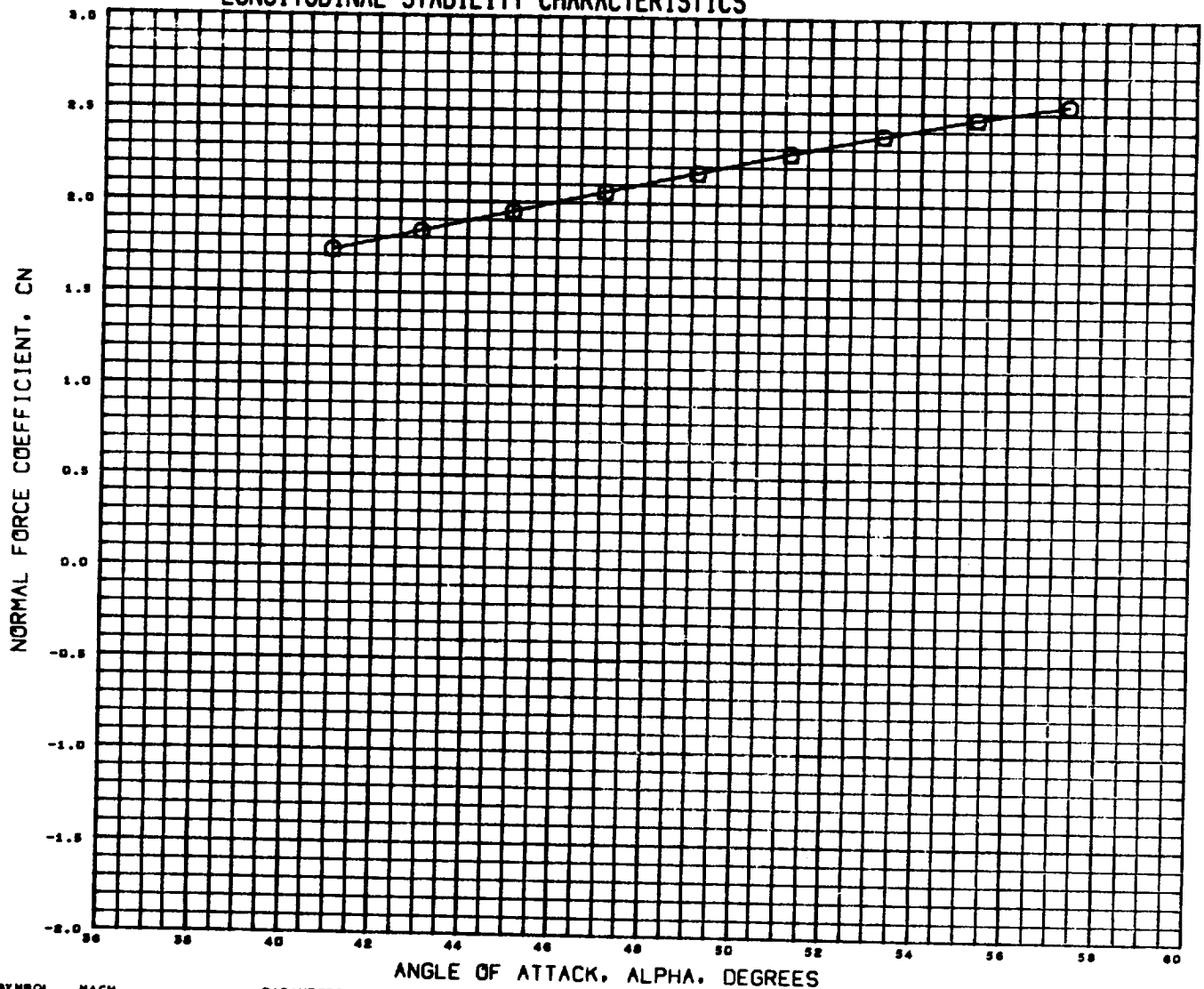
SYMBOL ○	MACH 0.600	PARAMETRIC VALUES			
		BETA	0.000	DEL	- 30.000
		DER	- 30.000	ELEVTR	- 30.000
		AILRON	0.000		

REFERENCE INFORMATION		
SREF.	4.6225	88. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414A) 24 AUG 71 PAGE 81

LONGITUDINAL STABILITY CHARACTERISTICS



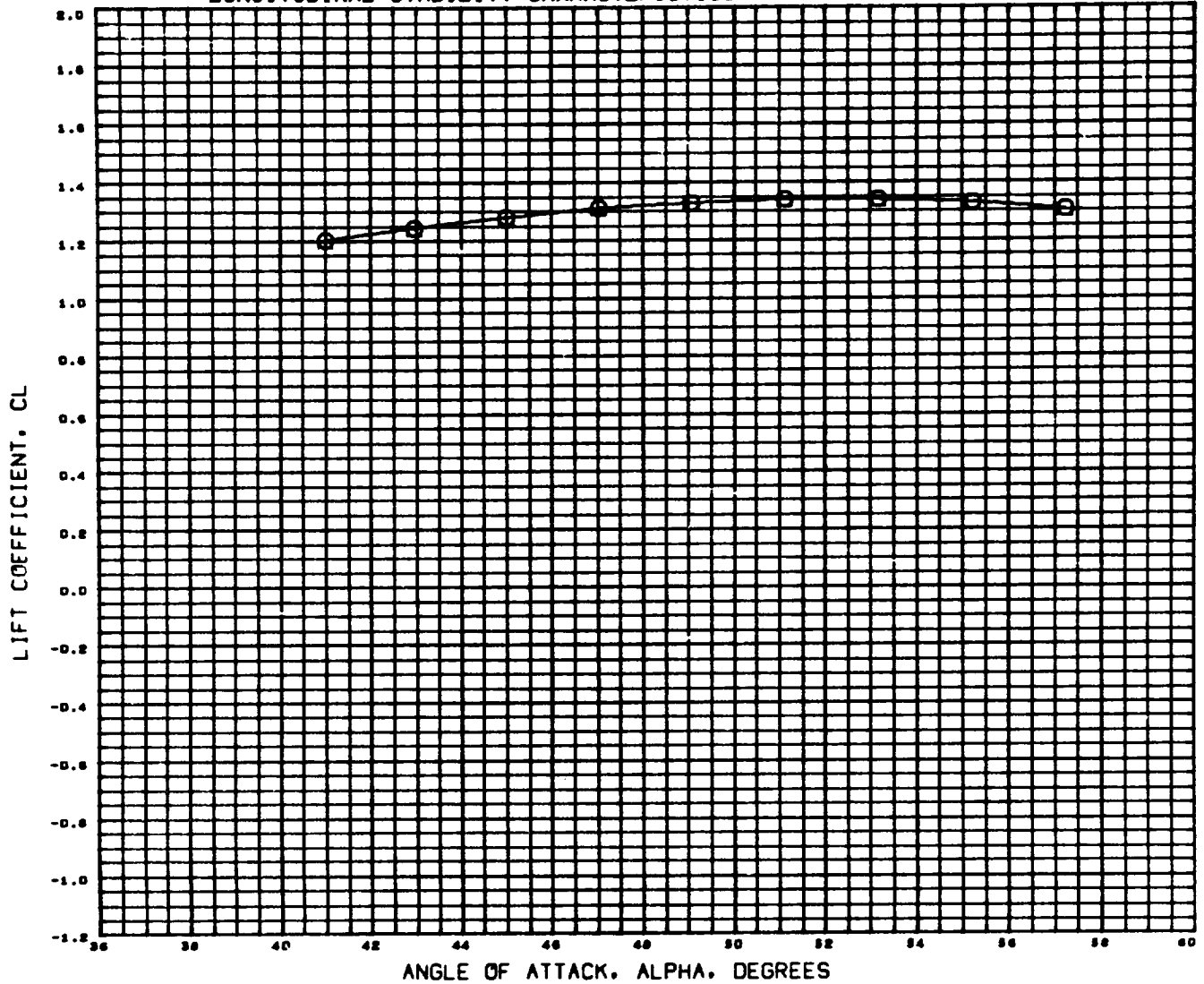
SYMBOL \square MACH 4.959
 PARAMETRIC VALUES
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XWRP 2.4000 IN.
 YWRP 0.0000 IN.
 ZWRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 82

LONGITUDINAL STABILITY CHARACTERISTICS



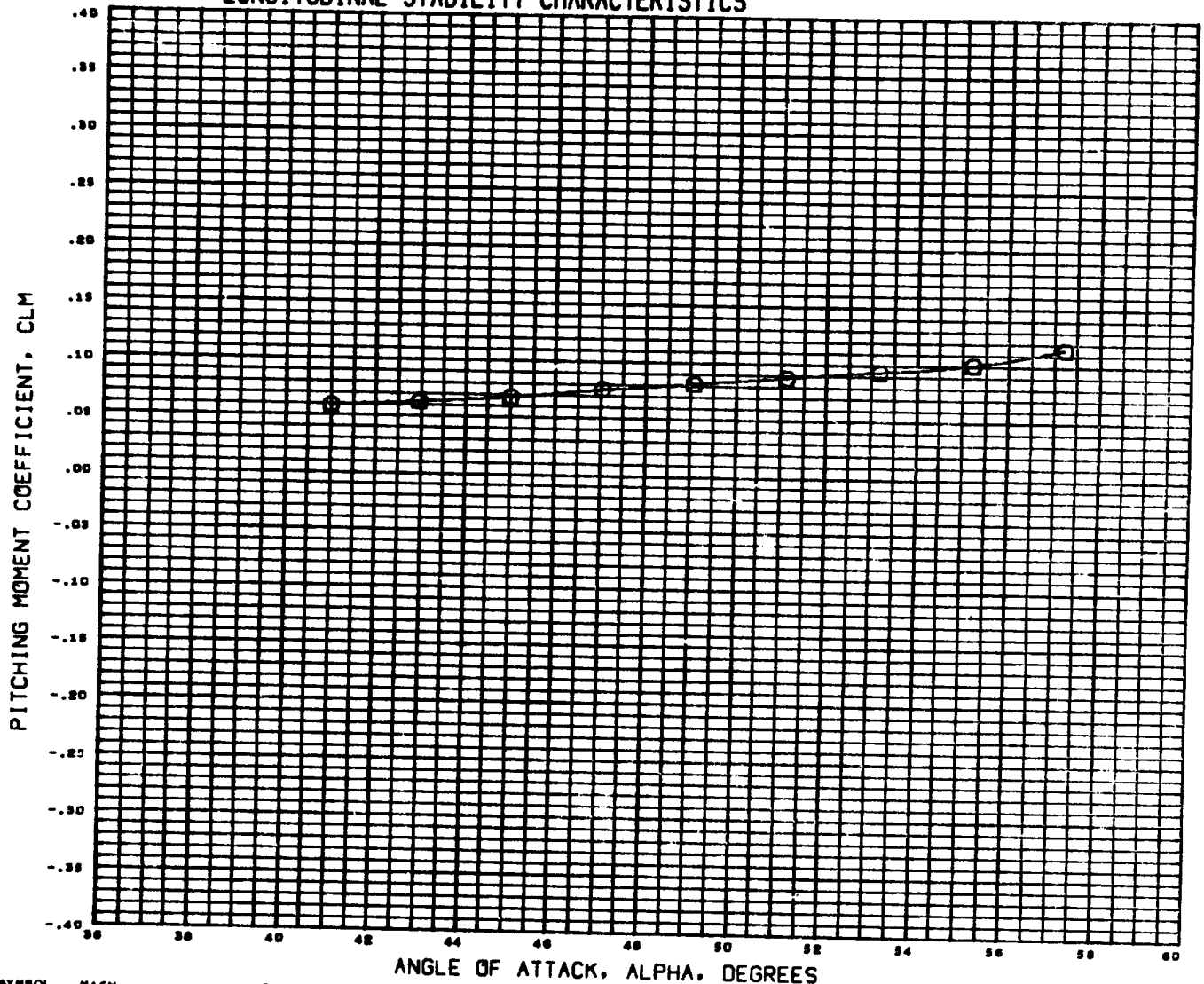
SYMBOL \bigcirc MACH 4.959
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 88.1N.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE GV9E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 83

LONGITUDINAL STABILITY CHARACTERISTICS



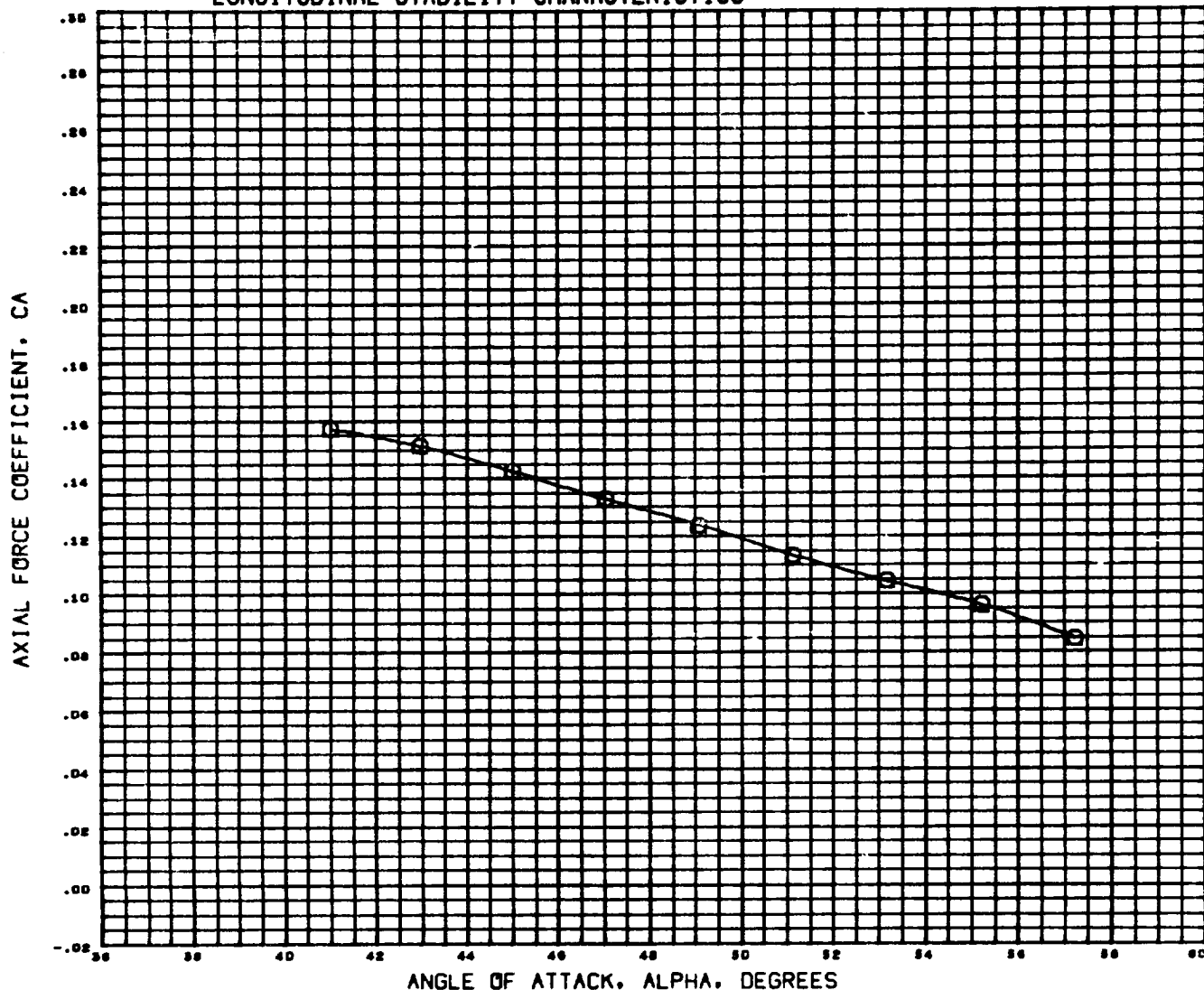
SYMBOL \square MACH 4.999
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

DATA HIST. CODE 6V0E

REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

M492-MSFC AR1198I-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 84

LONGITUDINAL STABILITY CHARACTERISTICS

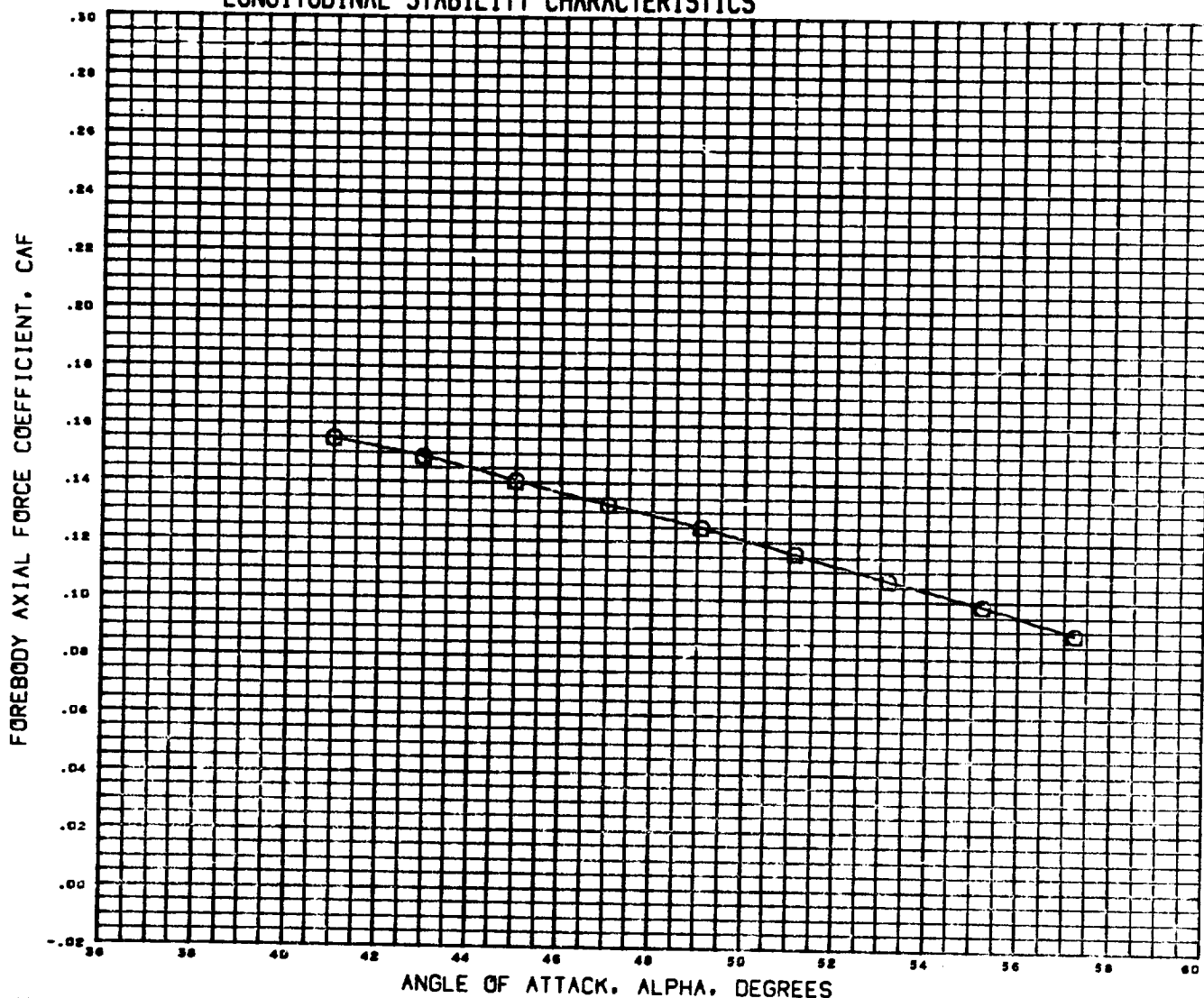


SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
O		4.959		BETA	0.000	DEL	- 30.000	SREF	4.6225	88. IN.
				DER	- 30.000	ELEVTR	- 30.000	LREF	4.3000	IN.
				AILTRON	0.000			SREF	4.3000	IN.
								XNRP	2.4000	IN.
								YNRP	0.0000	IN.
								ZNRP	0.0000	IN.
								SCALE	0.0025	

DATA HIST. CODE 6V8E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 85

LONGITUDINAL STABILITY CHARACTERISTICS



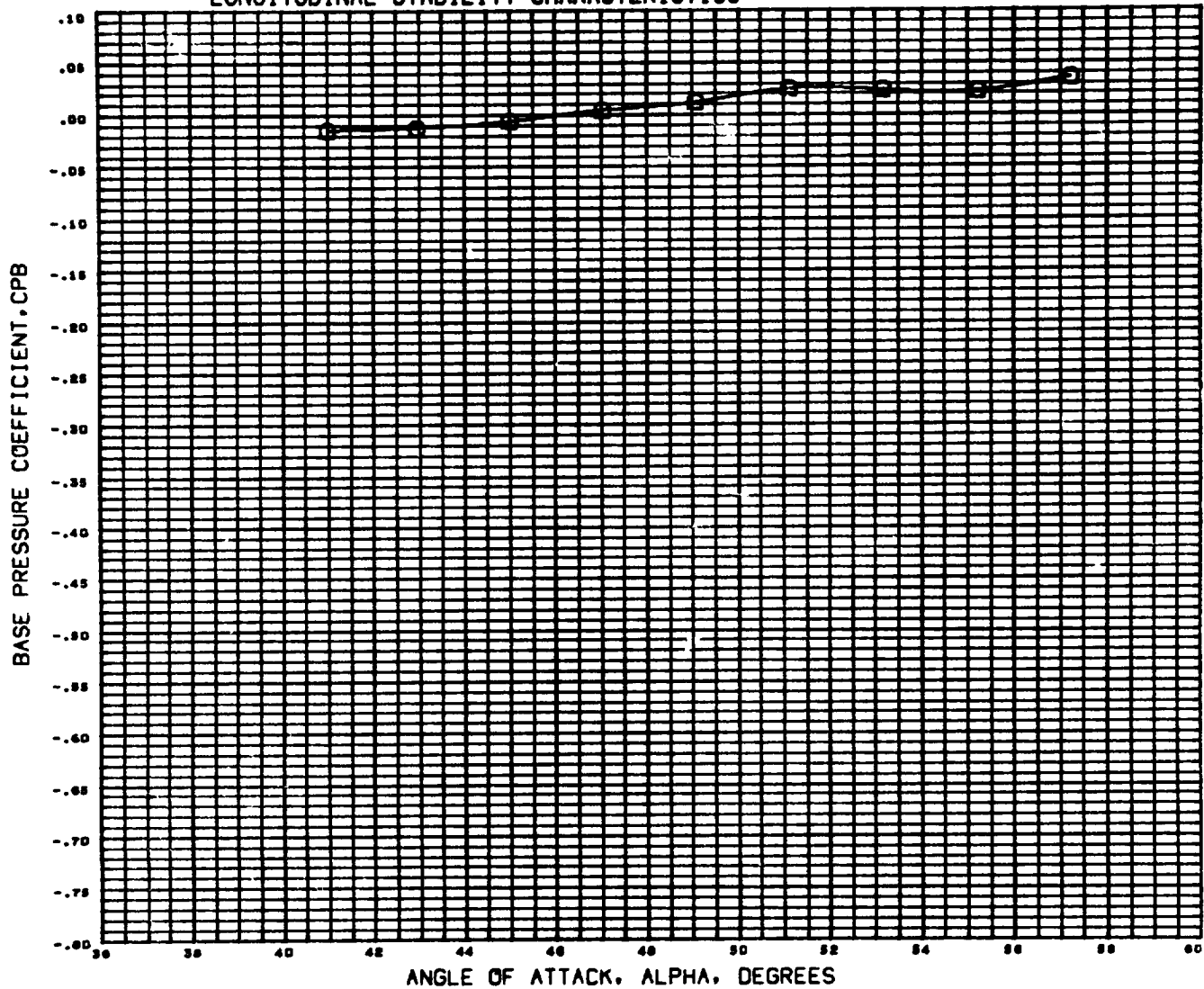
SYMBOL \bigcirc MACH 4.959
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

DATA HIST. CODE 6V6E

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

M492-MSFC AR1198I-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 86

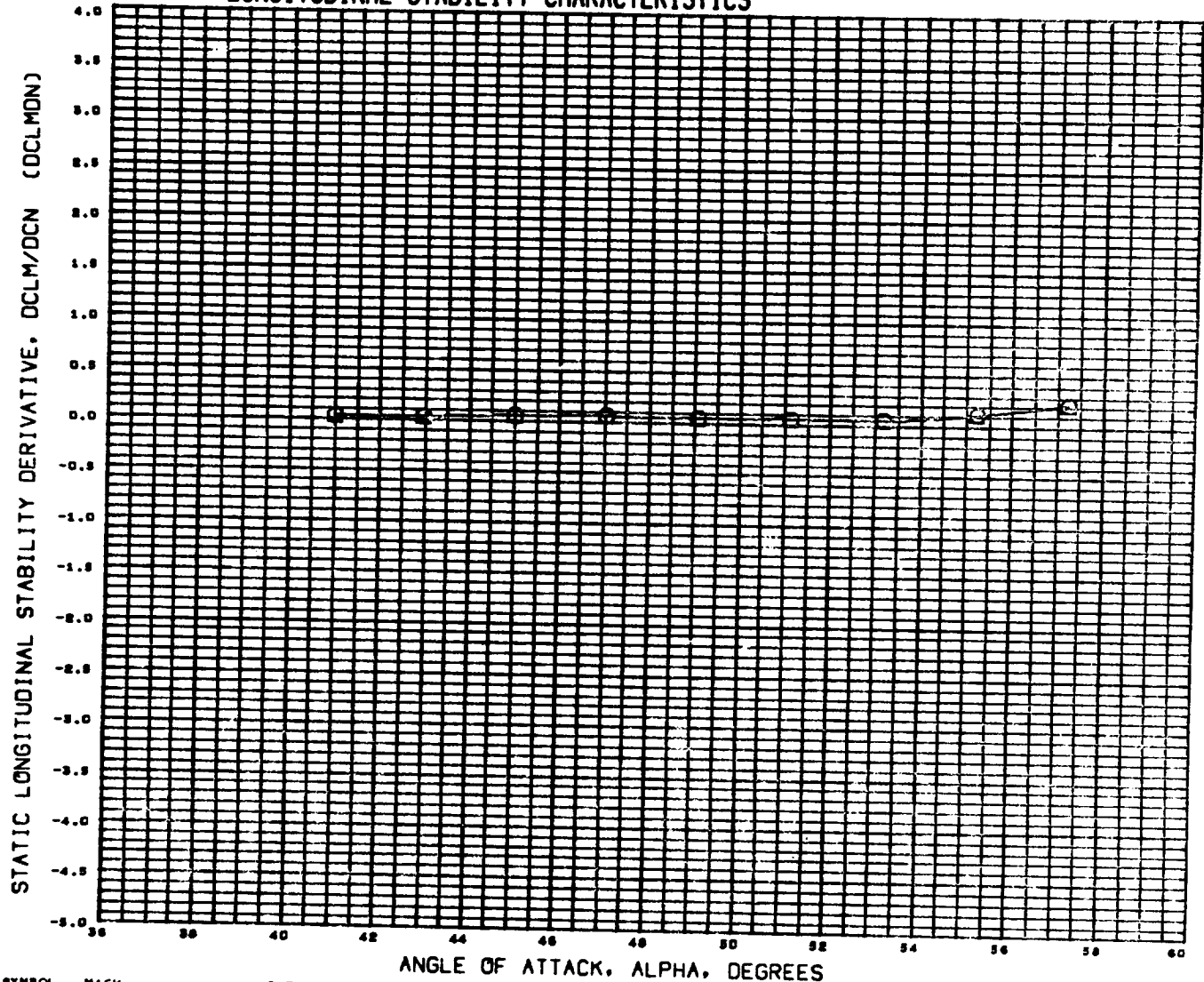
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
O		4.959		BETA	0.000	DEL	- 30.000	BREF	4.6225	88. IN.
				DER	- 30.000	ELEVTR	- 30.000	LREF	4.3000	IN.
				AILRON	0.000			BREF	4.3000	IN.
								XMRP	2.4000	IN.
								YMRP	0.0000	IN.
								ZMRP	0.0000	IN.
								SCALE	0.0025	

DATA HIST. CODE 6V0E

LONGITUDINAL STABILITY CHARACTERISTICS



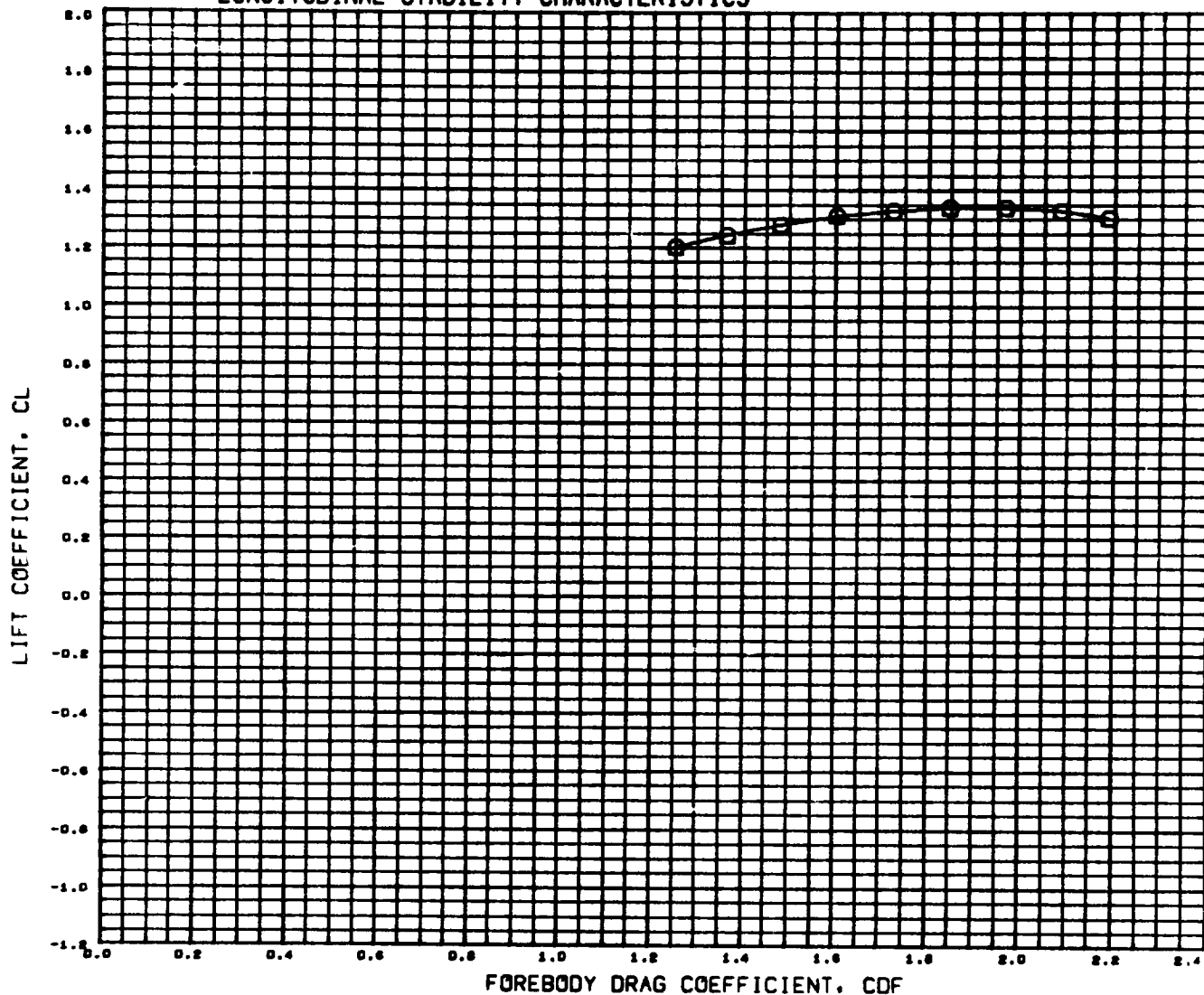
SYMBOL MACH 4.939
 D BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

DATA HIST. CODE 6V8E

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 88

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL \bigcirc MACH 4.959
 PARAMETRIC VALUES
 BETA 0.000 DEL - 30.000
 DER - 30.000 ELEVTR - 30.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 88. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 6.0025

DATA HIST. CODE 6V9E

LONGITUDINAL STABILITY CHARACTERISTICS



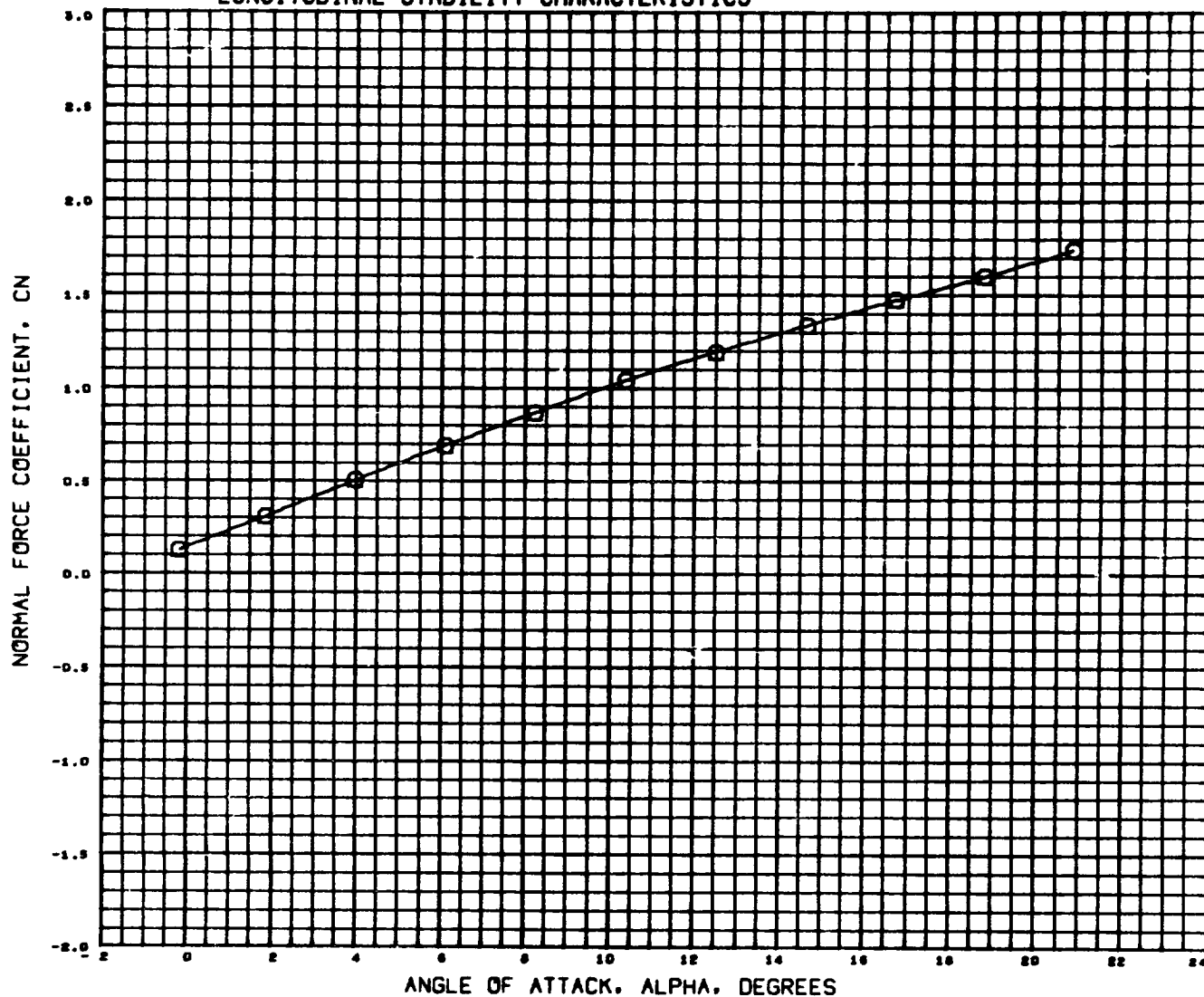
PITCHING MOMENT COEFFICIENT, CLM

SYMBOL	MACH	PARAMETRIC VALUES		REFERENCE INFORMATION	
□	4.959	BETA	0.000	DEL	- 30.000
		DER	- 30.000	ELEVTR	- 30.000
		AILROM	0.000		
				SREF	4.6225 50. IN.
				LREF	4.3000 IN.
				BREF	4.3000 IN.
				XMRP	2.4000 IN.
				YMRP	0.0000 IN.
				ZMRP	0.0000 IN.
				SCALE	0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414K) 24 AUG 71 PAGE 90

LONGITUDINAL STABILITY CHARACTERISTICS

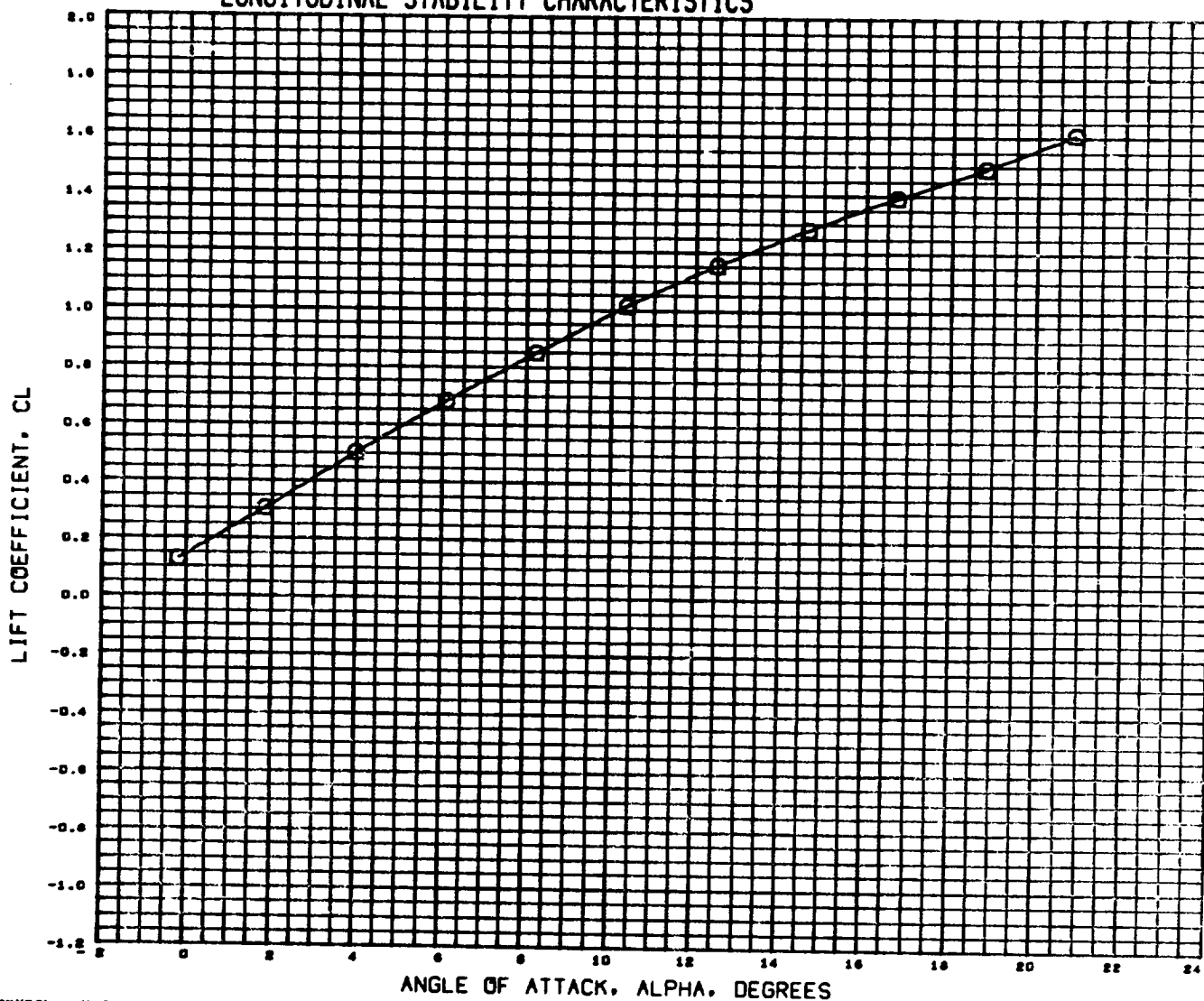


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR	AILRON	QREF	LREF	ZREF
○	0.602	0.000	0.000	0.000	0.000	4.6223	4.3000	4.3000
		0.000	0.000	0.000	0.000	2.4000	0.0000	0.0000
						0.0000	0.0000	0.0000
						0.0025		

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 91

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL \bigcirc NACH 0.602

PARAMETRIC VALUES			
BETA	0.000	DEL	0.000
DER	0.000	ELEVTR	0.000
AILRON	0.000		

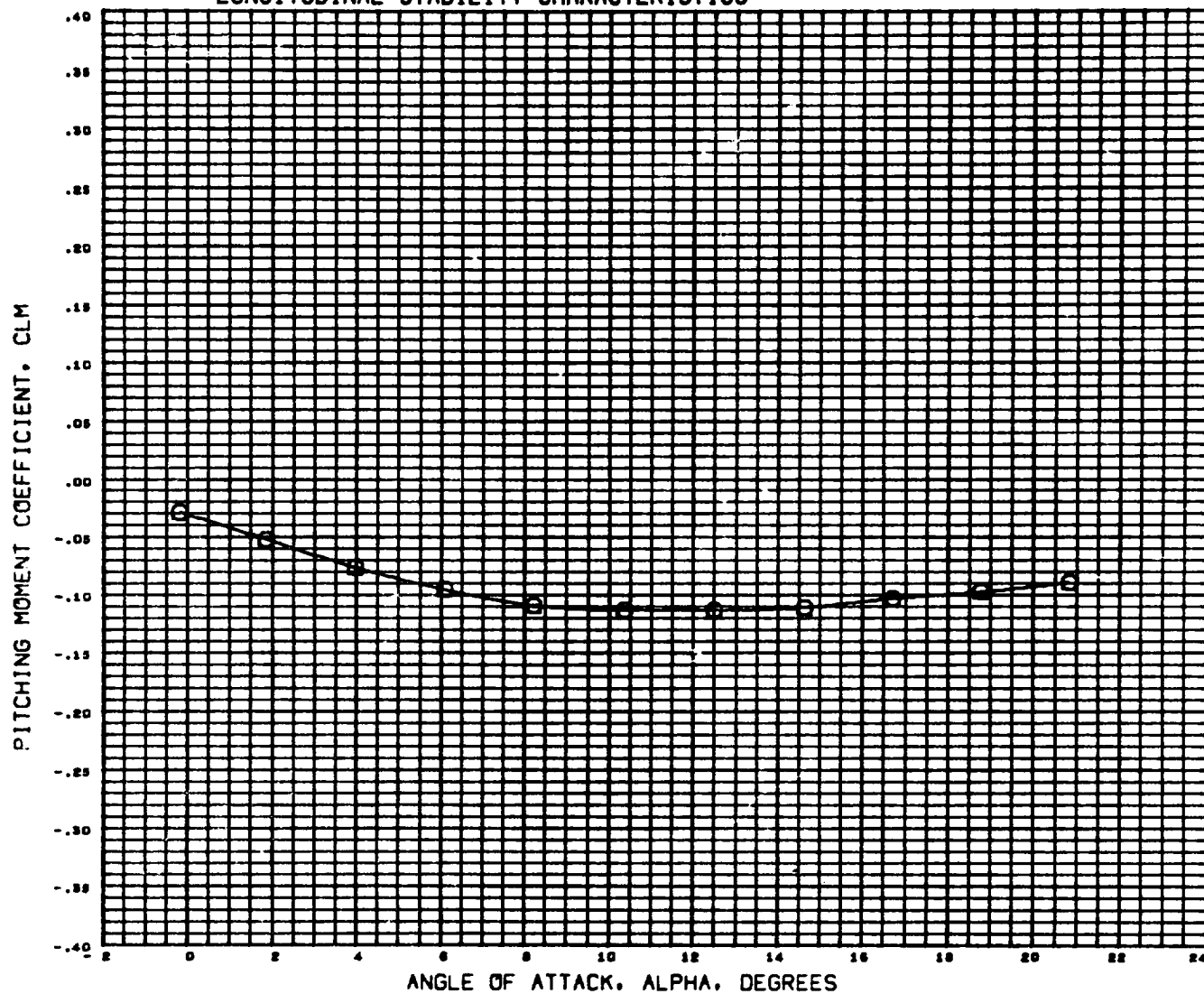
REFERENCE INFORMATION

SREF	4.6225	98. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

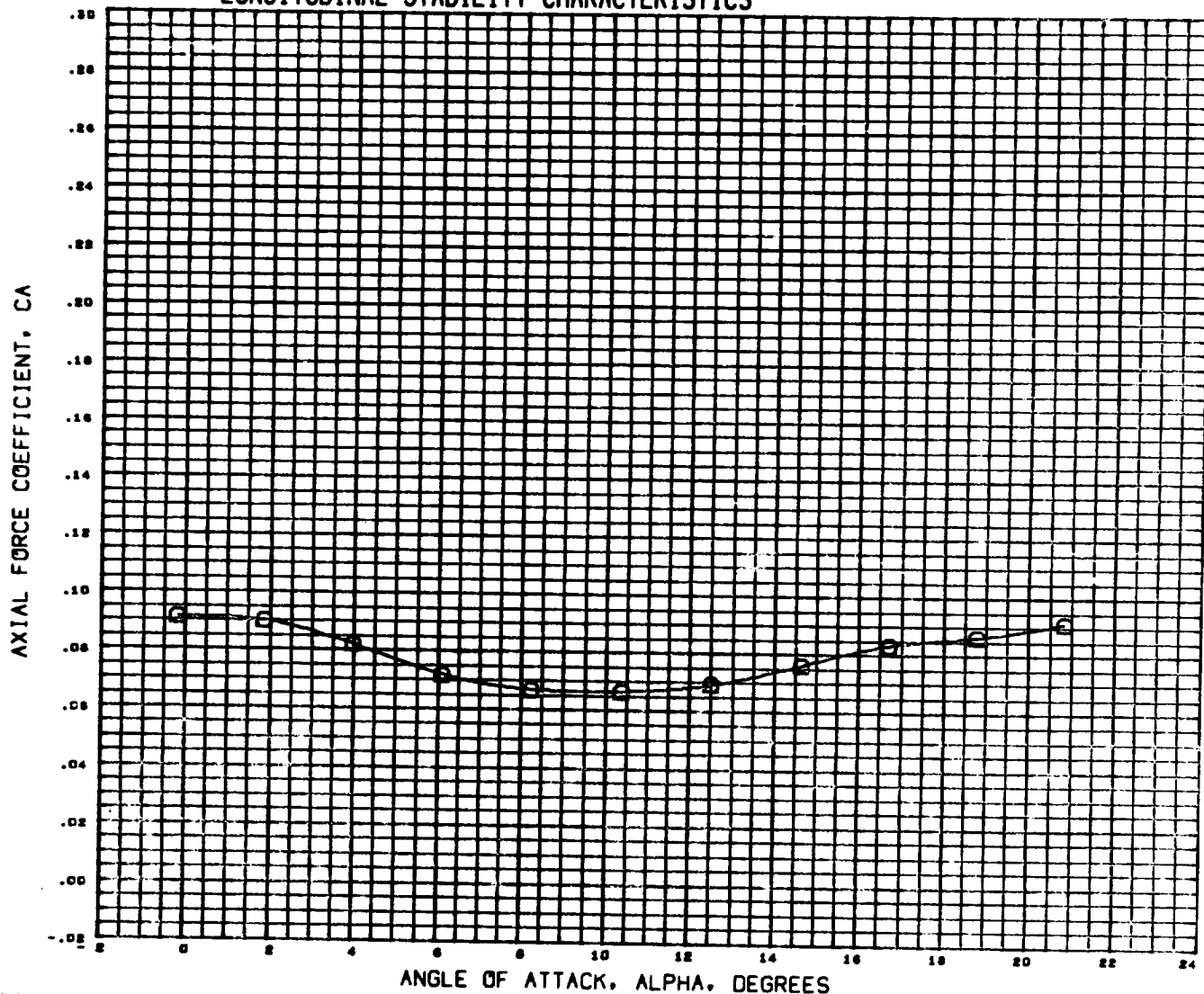
M492-MSFC AR1198I-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 92

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL		PARAMETRIC VALUES				REFERENCE INFORMATION		
O	MACH	BETA	DEL	DEL		BREF	4.6225	50. IN.
	0.602	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
		AILRON	0.000			BREF	4.3000	IN.
						XMRP	2.4000	IN.
DATA HIST. CODE		6V0E				YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

LONGITUDINAL STABILITY CHARACTERISTICS



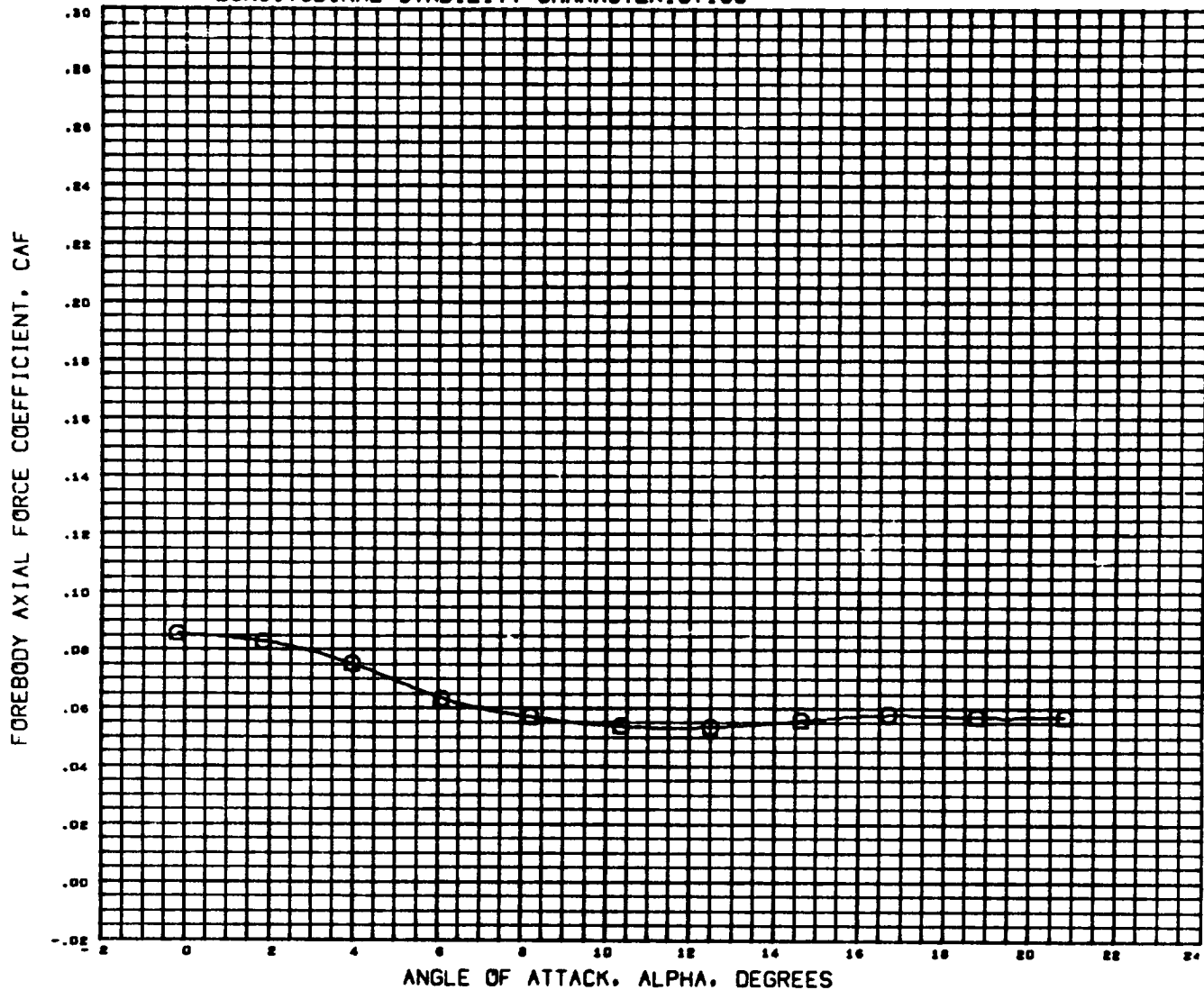
SYMBOL \bigcirc MACH 0.402
 BETA 0.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 AILRON 0.000

DATA HIST. CODE 6V0E

REFERENCE INFORMATION
 SREF 4.6225 38. IN.
 LREF 4.3000 IN.
 DREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

M492-MSFC AR1198I-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 94

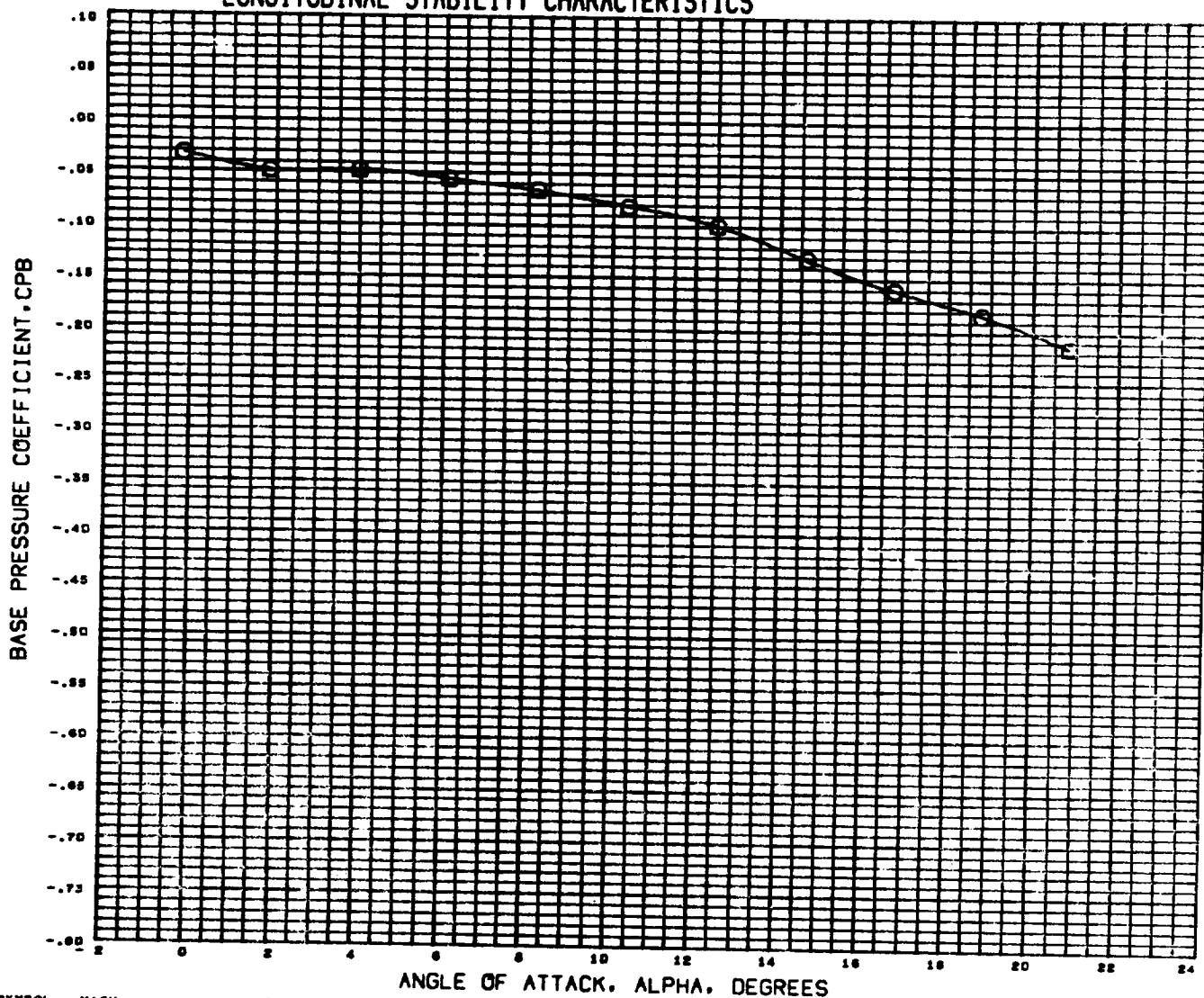
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
□	0.602	BETA	0.000	DEL	0.000	BREF	4.6223	80. IN.
		DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
		AILRON	0.000			BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE		6V8E						
M492-MSFC	AR11981-1	MODEL	B2W6V2011	(E3415A)	24 AUG 71	PAGE	95	

LONGITUDINAL STABILITY CHARACTERISTICS



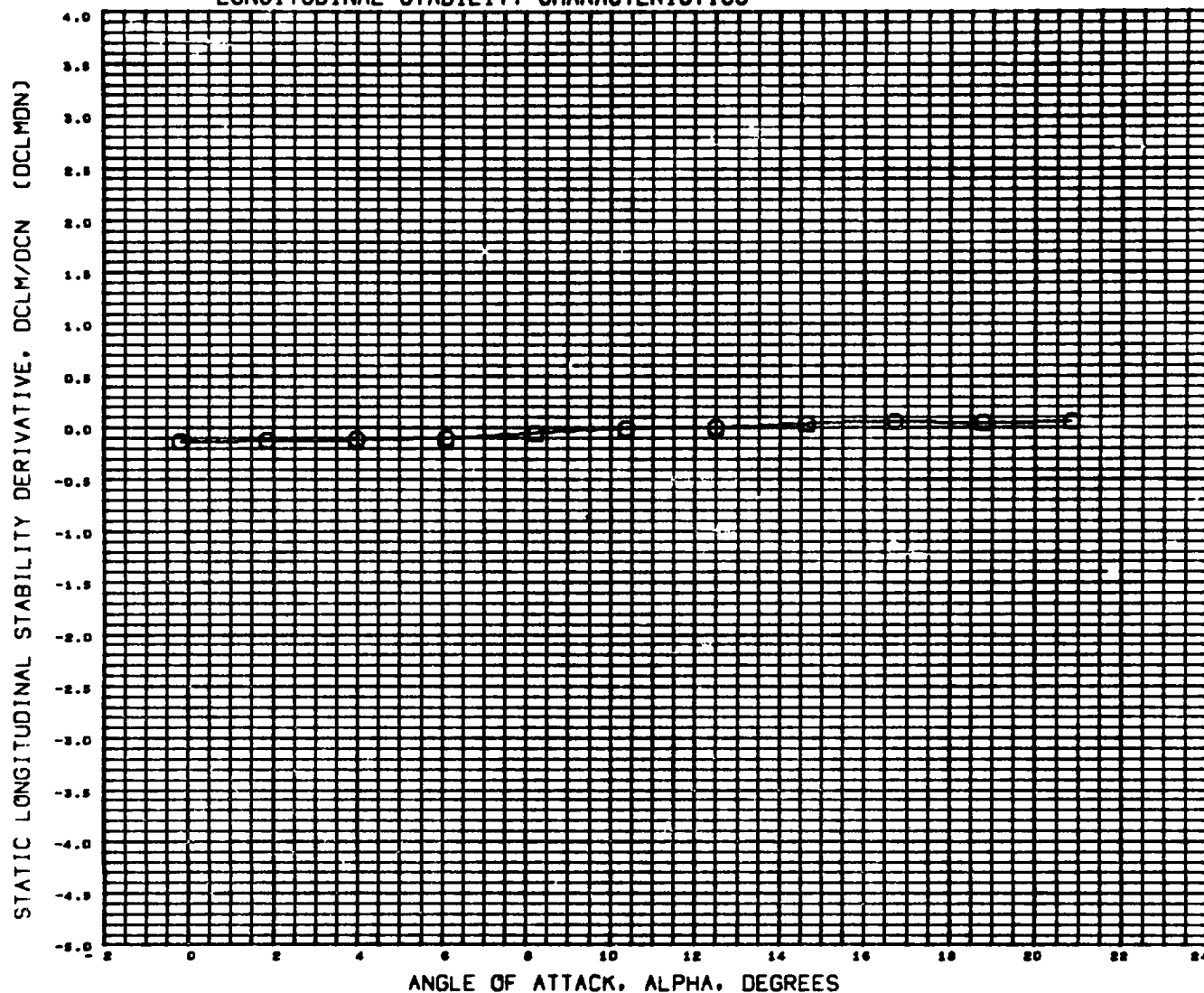
SYMBOL \square MACH 0.602
 BETA 0.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 AILRON 0.000

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC AR1198I-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 96

LONGITUDINAL STABILITY CHARACTERISTICS

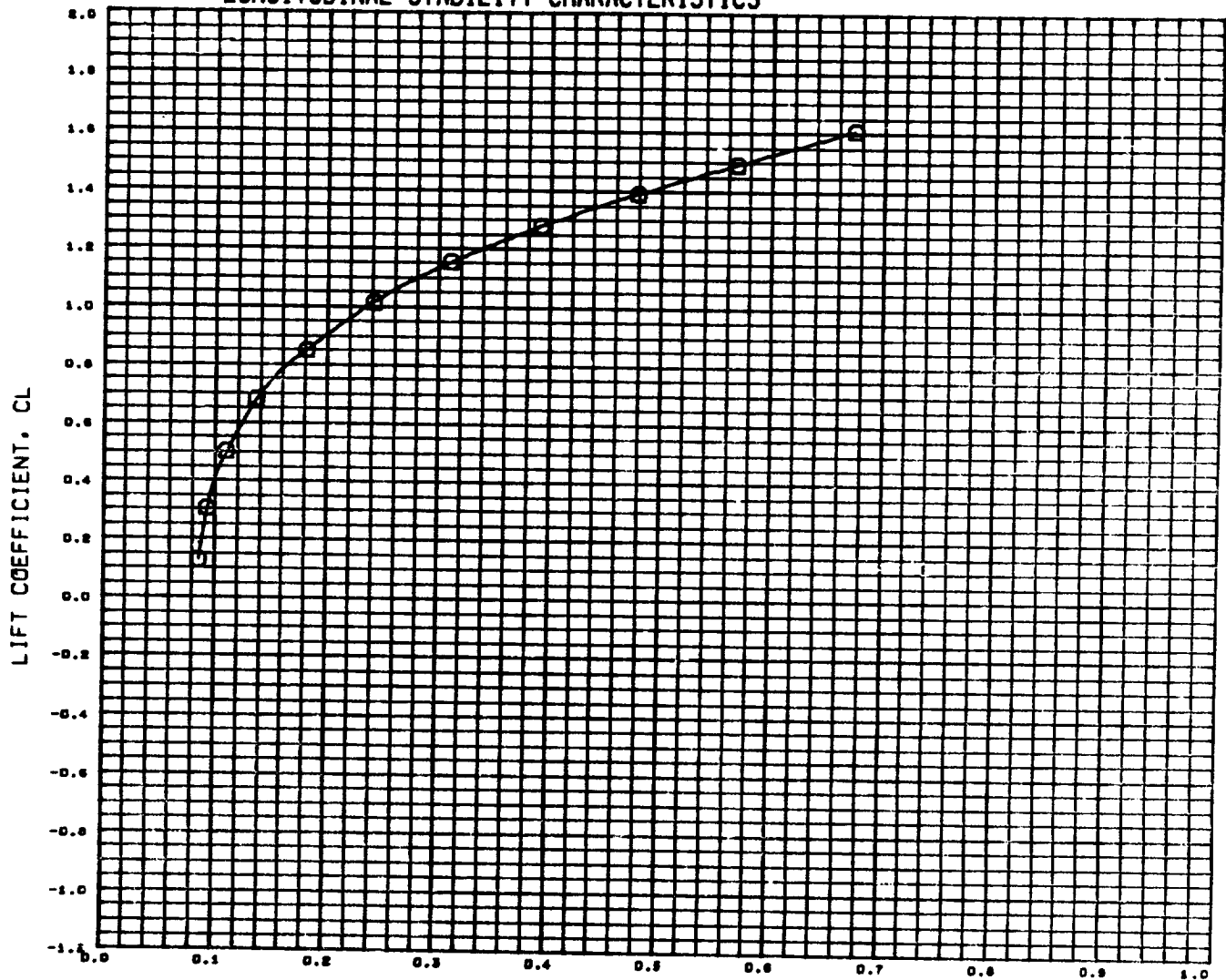


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
0	0.602	BETA	0.000	DEL	0.000	SRF	4.6228	80. IN.
		DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
		AILRON	0.000			SRF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE 6V8E

M492-MSFC AR11981-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 97

LONGITUDINAL STABILITY CHARACTERISTICS



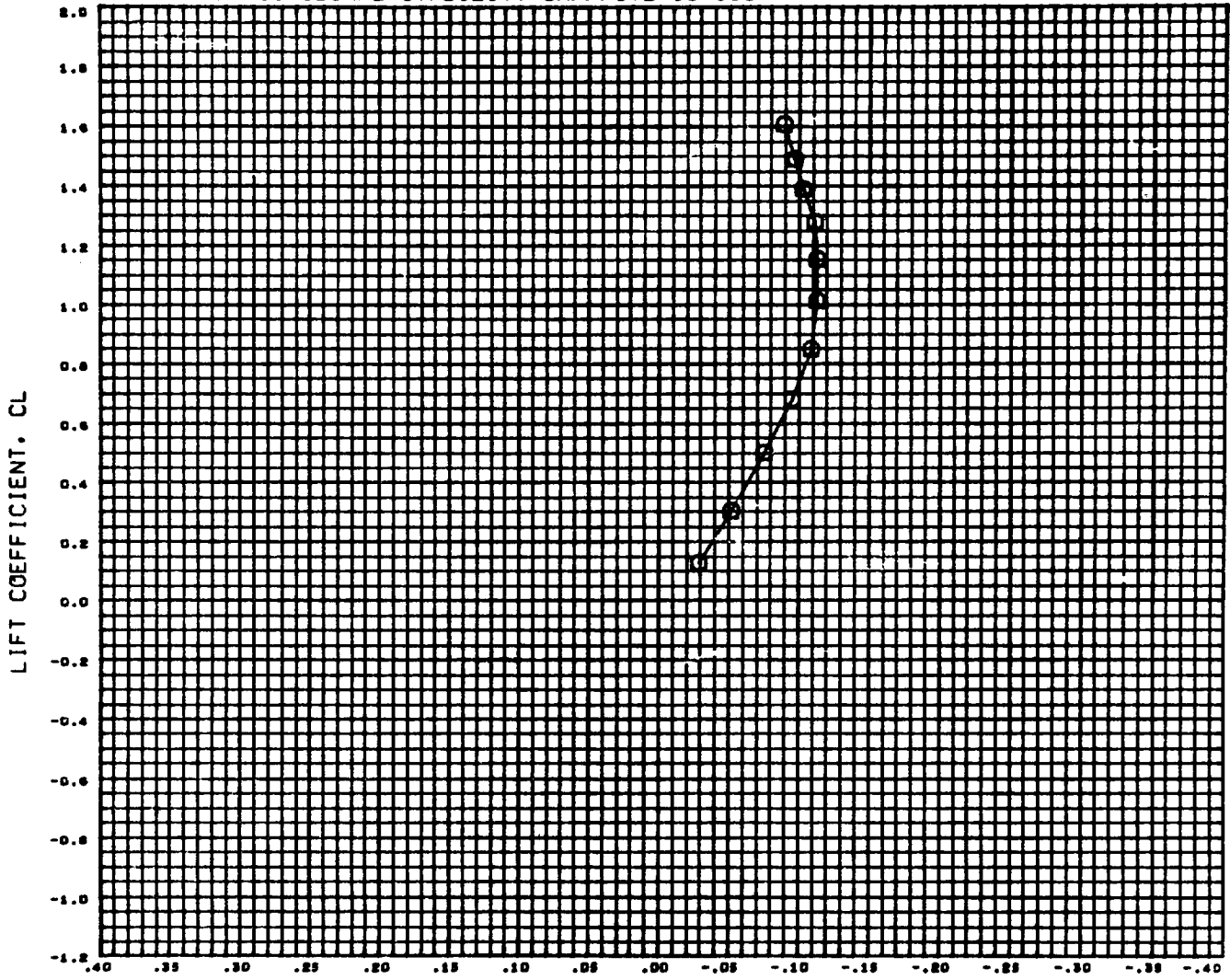
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.002	BETA	0.000	DEL	0.000
		DER	0.000	ELEVTR	0.000
		AILRON	0.000		

REFERENCE INFORMATION		
SREF	4.6225	SQ.IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR1198I-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 98

LONGITUDINAL STABILITY CHARACTERISTICS



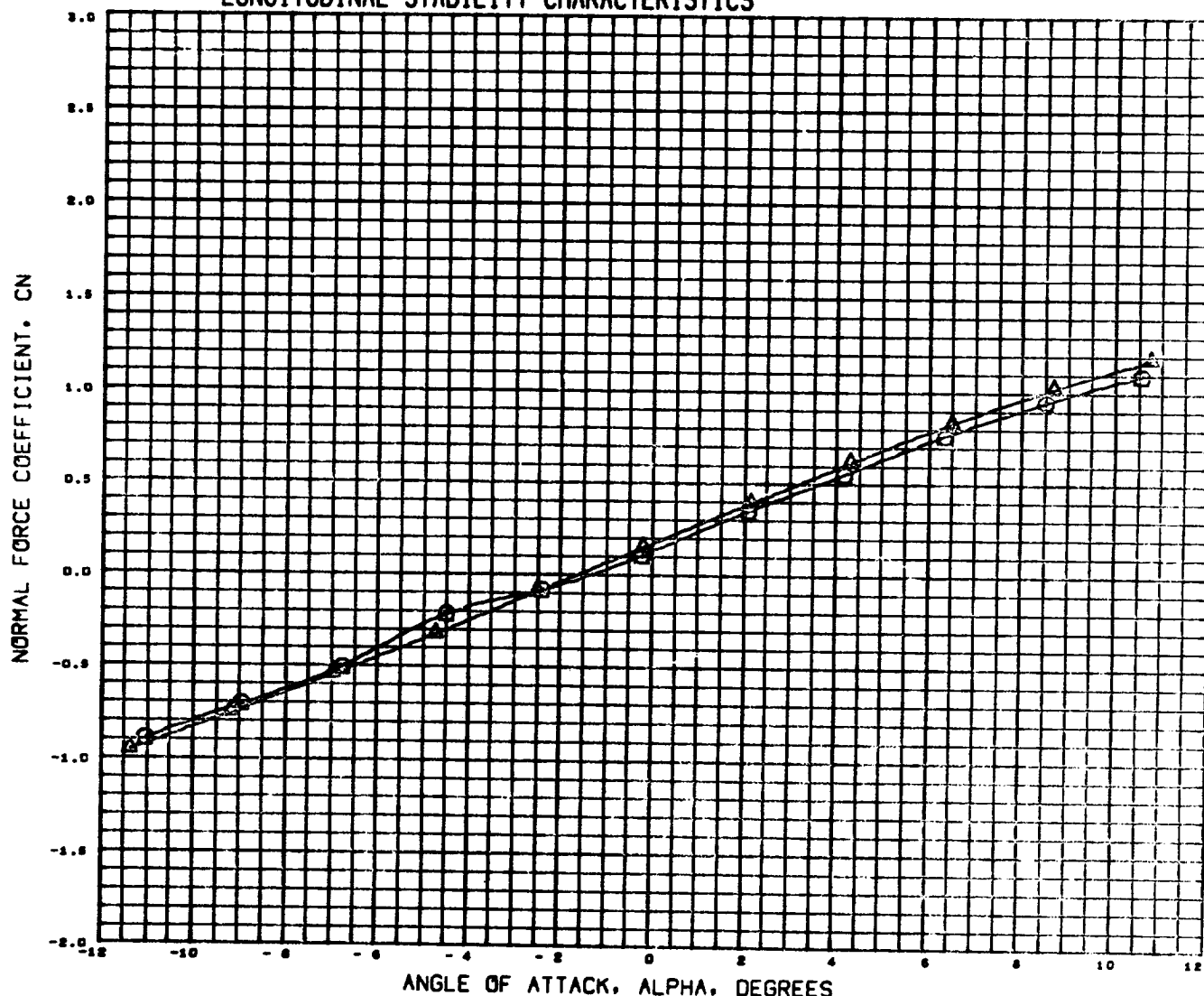
PITCHING MOMENT COEFFICIENT, CLM

SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
□	0.602	BETA	0.000	DEL	0.000	BREF	4.6225	88. IN.
		DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
		AILRON	0.000			BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE 6VRE

M492-MSFC AR1198I-1 MODEL B2W6V2011 (E3415A) 24 AUG 71 PAGE 99

LONGITUDINAL STABILITY CHARACTERISTICS



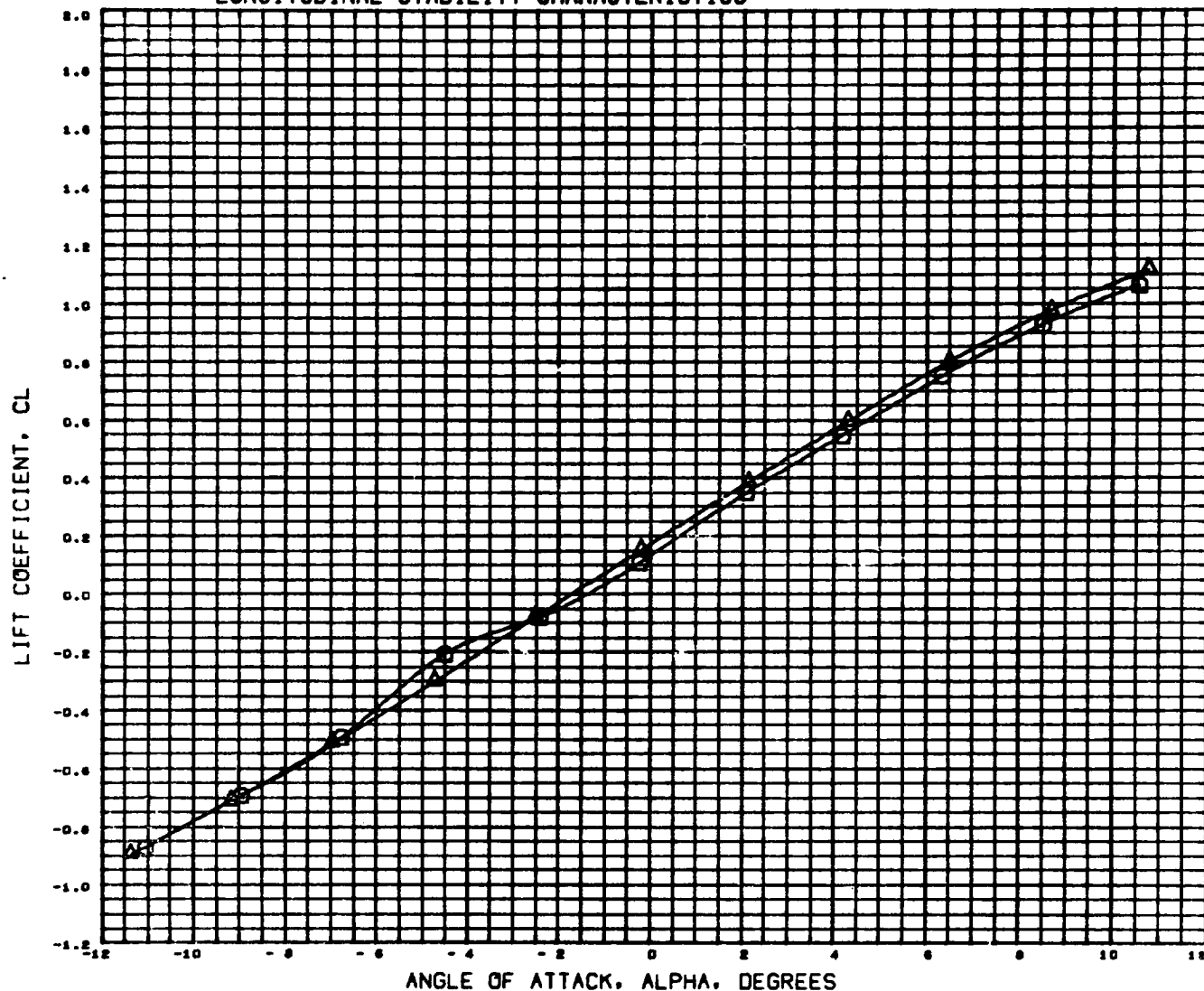
SYMBOL	MACH	PARAMETRIC VALUES			
○	0.999	BETA	0.000	DEL	0.000
△	1.197	DER	0.000	ELEVTR	0.000
		AILRON	0.000	CANARD	0.000

REFERENCE INFORMATION		
SREF	4.6225	Sq. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 100

LONGITUDINAL STABILITY CHARACTERISTICS

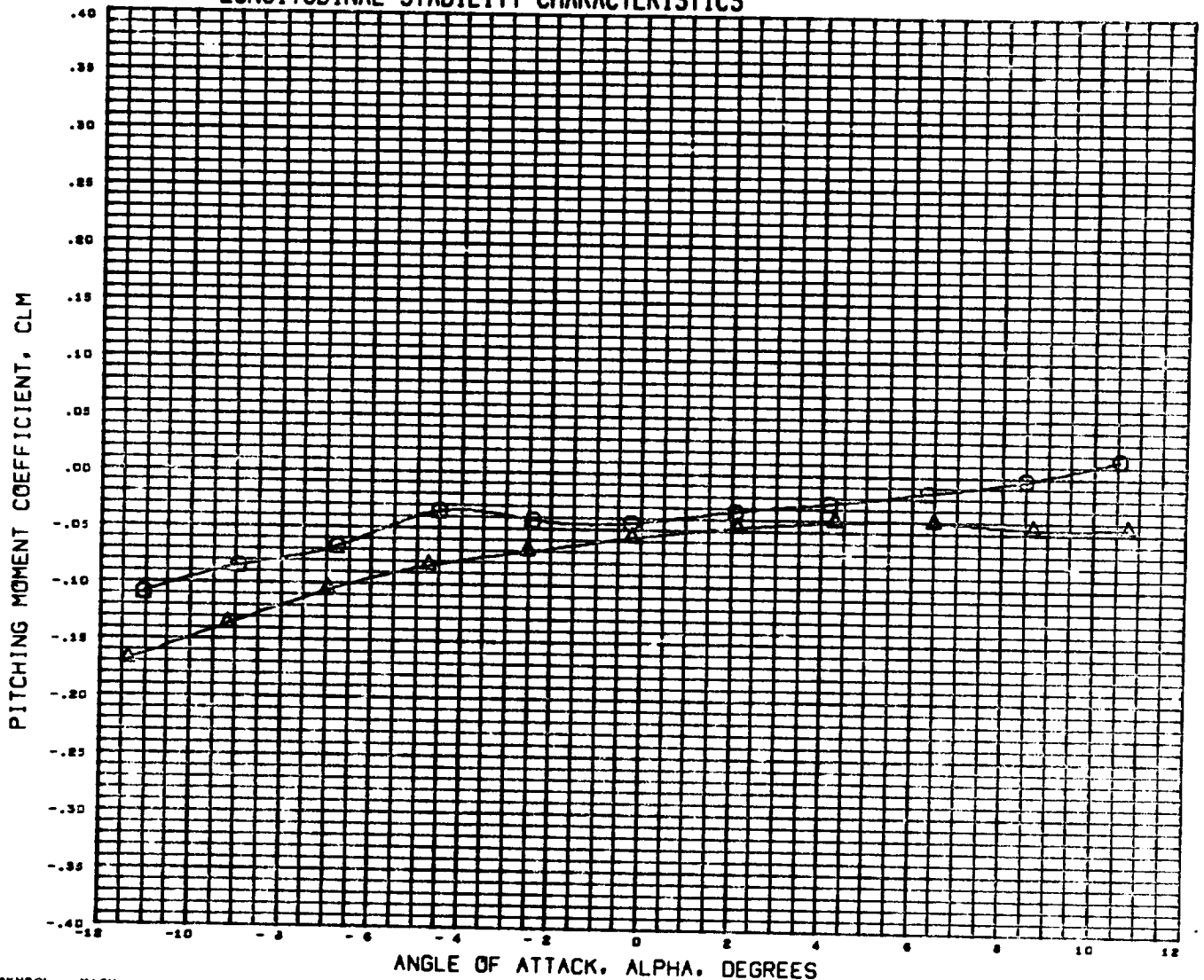


SYMBOL	NACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	0.599	BETA	0.000	DEL	0.000	BREF	4.6225	80. IN.
△	1.197	DER	0.000	ELEVTR	0.000	LREF	4.3000	IN.
		AILRON	0.000	CANARD	0.000	BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 101

LONGITUDINAL STABILITY CHARACTERISTICS



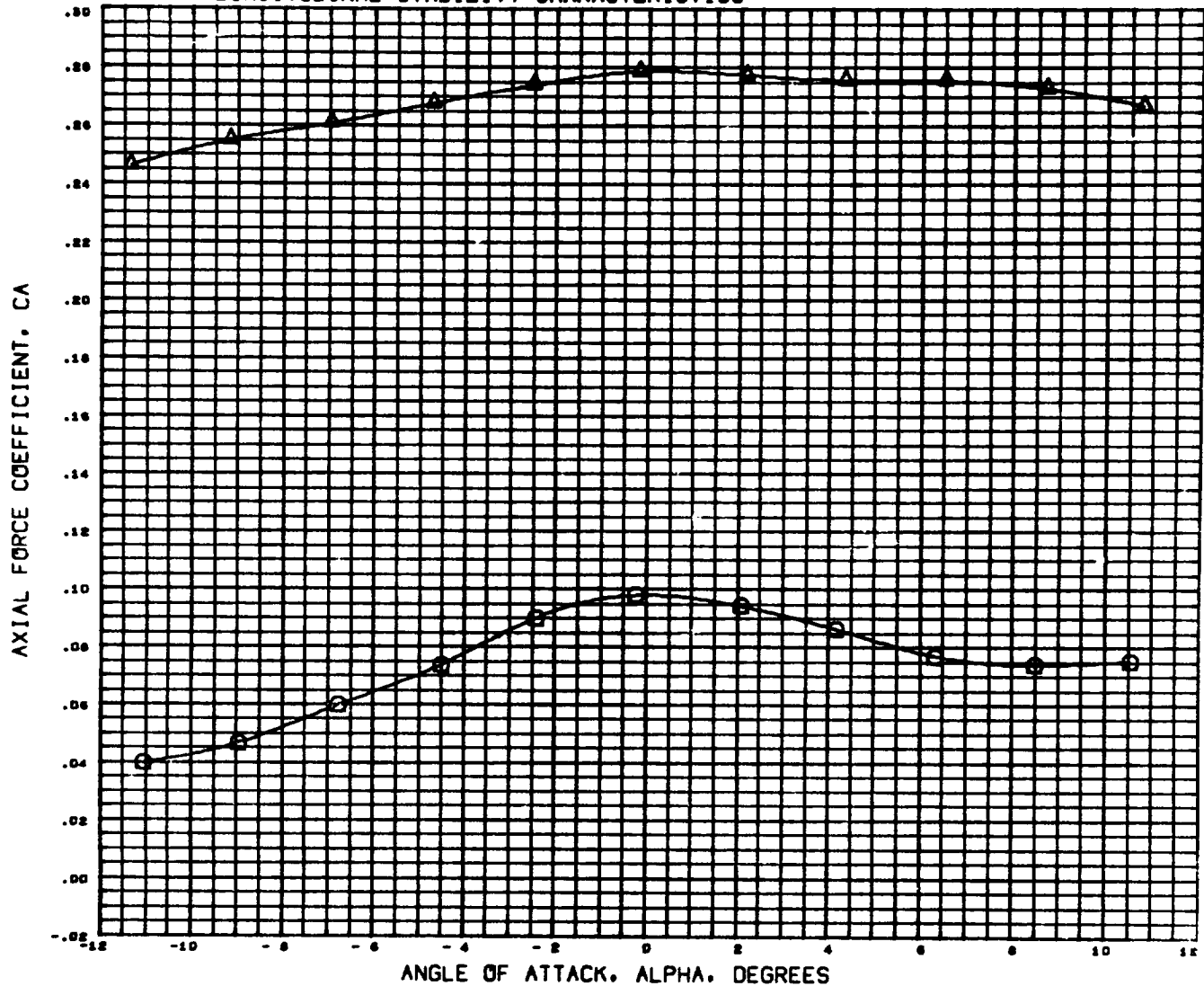
SYMBOL Δ	NACH	PARAMETRIC VALUES			
	0.599	BETA	0.000	DEL	0.000
	1.197	DER	0.000	ELEVTR	0.000
		AILRON	0.000	CANARD	0.000

REFERENCE INFORMATION		
SREF	4.6225	50 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XHRP	2.4000	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 6V0E

M492-MSFC AR11981-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 102

LONGITUDINAL STABILITY CHARACTERISTICS

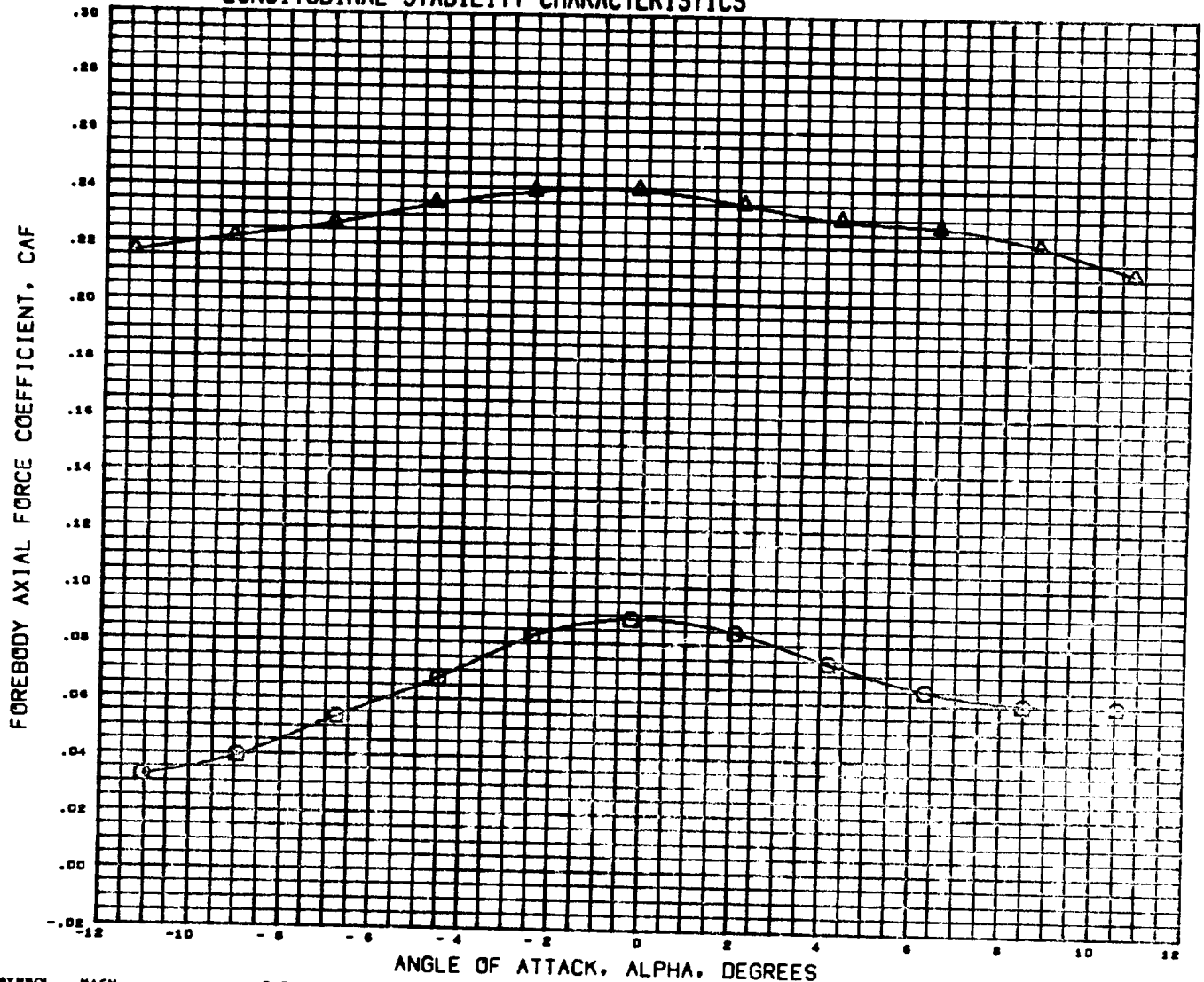


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
Δ	0.999	BETA	0.000	DEL	0.000	OREF	4.6225	59. IN.
	1.197	DER	0.000	ELEVTR	0.000	LNREF	4.3000	IN.
		AILRON	0.000	CANARD	0.000	OREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE 6V9E

M492-MSFC AR11981-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 103

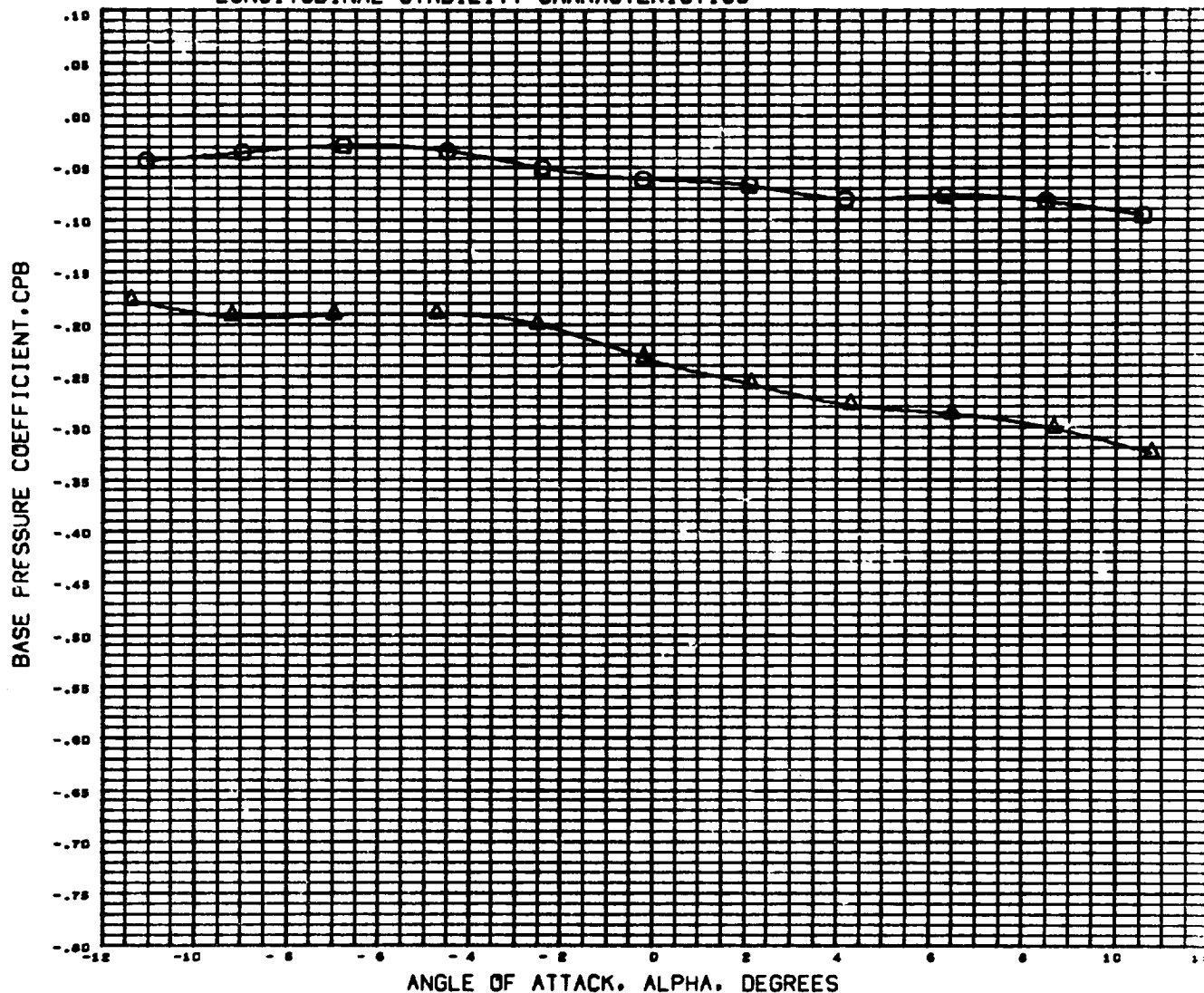
LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
	0.599	1.197	BETA	DEL	ELEVTR	CANARD	SREF	LREF	BREF
Δ			0.000	0.000	0.000	0.000	4.6225	4.3000	4.3000
			0.000	0.000	0.000	0.000	2.4000	0.0000	0.0000
			0.000	0.000	0.000	0.000	0.0000	0.0000	0.0000
							SCALE	0.0025	

DATA HIST. CODE 6V0E
M492-MSFC AR1198I-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 104

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION	
O Δ	0.999	BETA	0.000	DEL	0.000	SREF	4.6225 sq. in.
	1.197	DER	0.000	ELEVTR	0.000	LREF	4.3000 in.
		AILRON	0.000	CANARD	0.000	BREF	4.3000 in.
						XMRP	8.4000 in.
						YMRP	0.0000 in.
						ZMRP	0.0000 in.
						SCALE	0.0025

DATA HIST. CODE 6V9E

M492-MSFC AR11981-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 105

LONGITUDINAL STABILITY CHARACTERISTICS



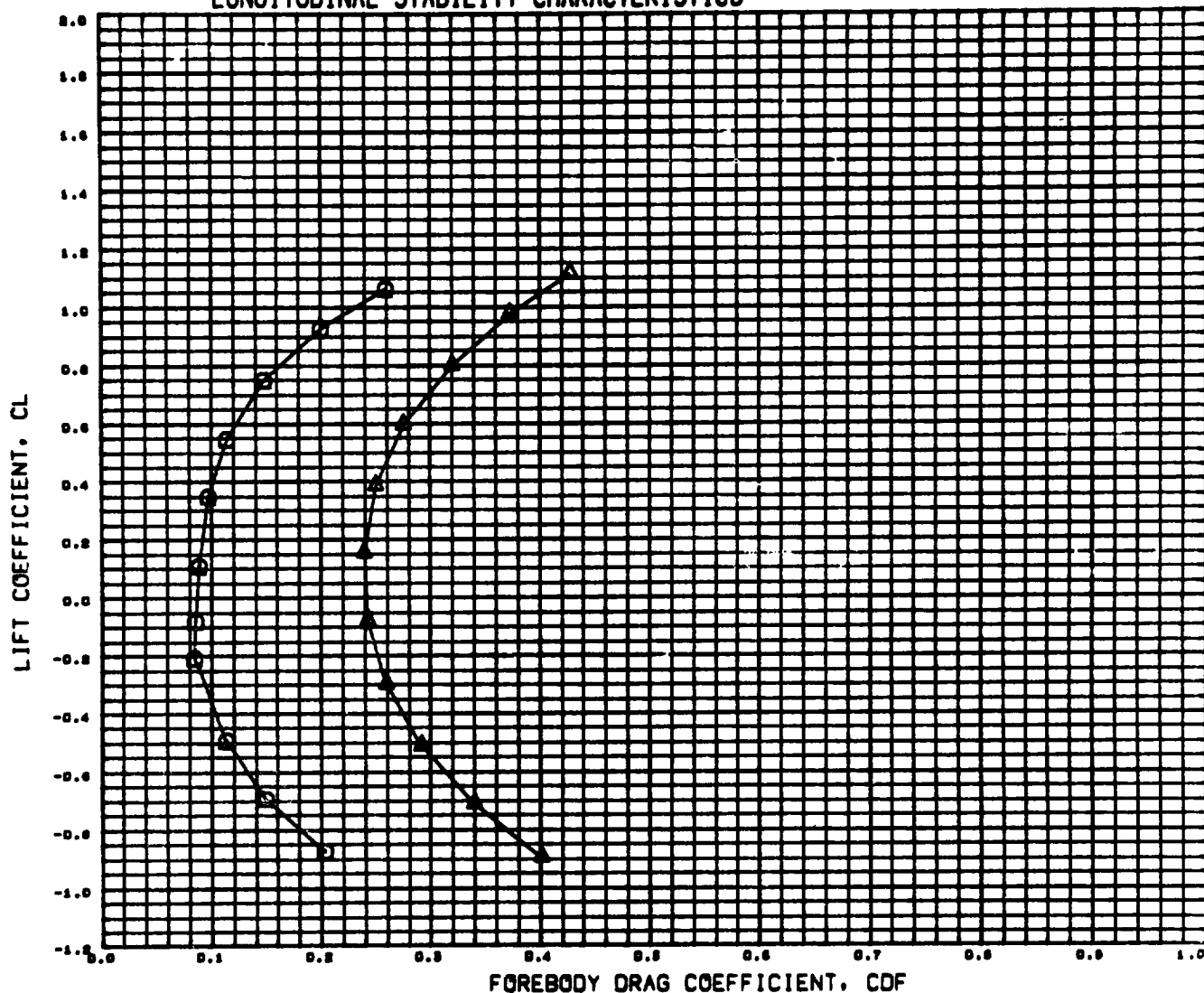
SYMBOL Δ	MACH	PARAMETRIC VALUES			
	0.589	BETA	0.000	DEL	0.000
	1.197	DER	0.000	ELEVTR	0.000
		AILRON	0.000	CANARD	0.000

REFERENCE INFORMATION	
SREF	4.6225 SQ. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
YNRP	2.4000 IN.
YNRP	0.0000 IN.
ZNRP	0.0000 IN.
SCALE	0.0025

DATA HIST. CODE GVOE

M492-MSFC AR1198I-1 MODEL B2W6V2C12011 (E3417C) 24 AUG 71 PAGE 106

LONGITUDINAL STABILITY CHARACTERISTICS

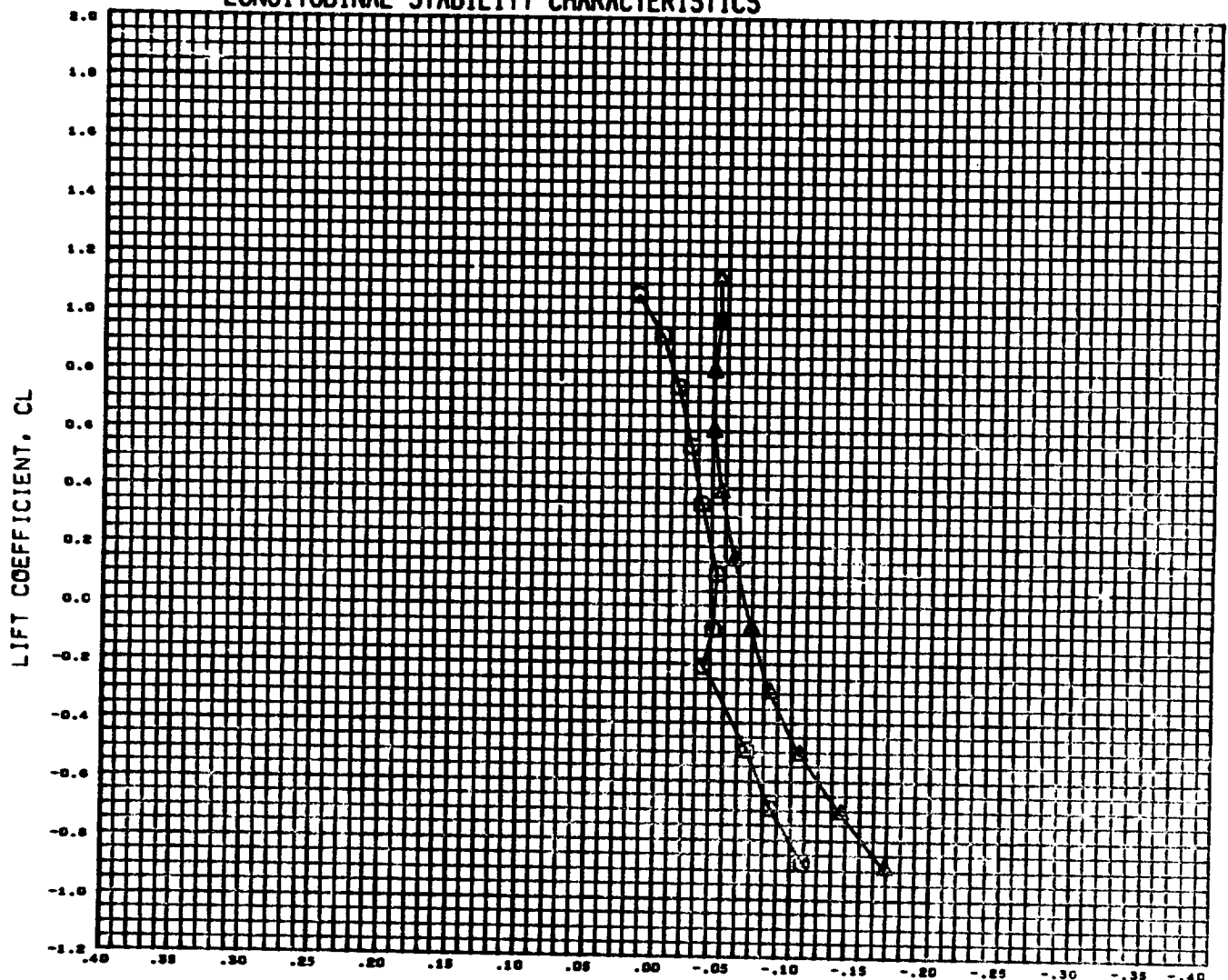


SYMBOL	MACH	PARAMETRIC VALUES			
Δ	0.999	BETA	0.000	DEL	0.000
	1.197	DER	0.000	ELEVTR	0.000
		AILRON	0.000	CANARD	0.000

REFERENCE INFORMATION		
BREF	4.0000	80. IN.
LREF	4.0000	IN.
BREF	4.0000	IN.
ENRP	8.0000	IN.
ENRP	0.0000	IN.
ENRP	0.0000	IN.
SCALE	0.0000	

DATA HIST. CODE 6V0E

LONGITUDINAL STABILITY CHARACTERISTICS



SYMBOL



MACH

0.999
1.197

BETA

0.000
0.000
0.000

PARAMETRIC VALUES

DEL

0.000
0.000
0.000

ELEVTR

0.000
0.000
0.000

CANARD

0.000

REFERENCE INFORMATION

SREF 4.6223 30. IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE 6V0E

M492-MSFC

AR11981-1

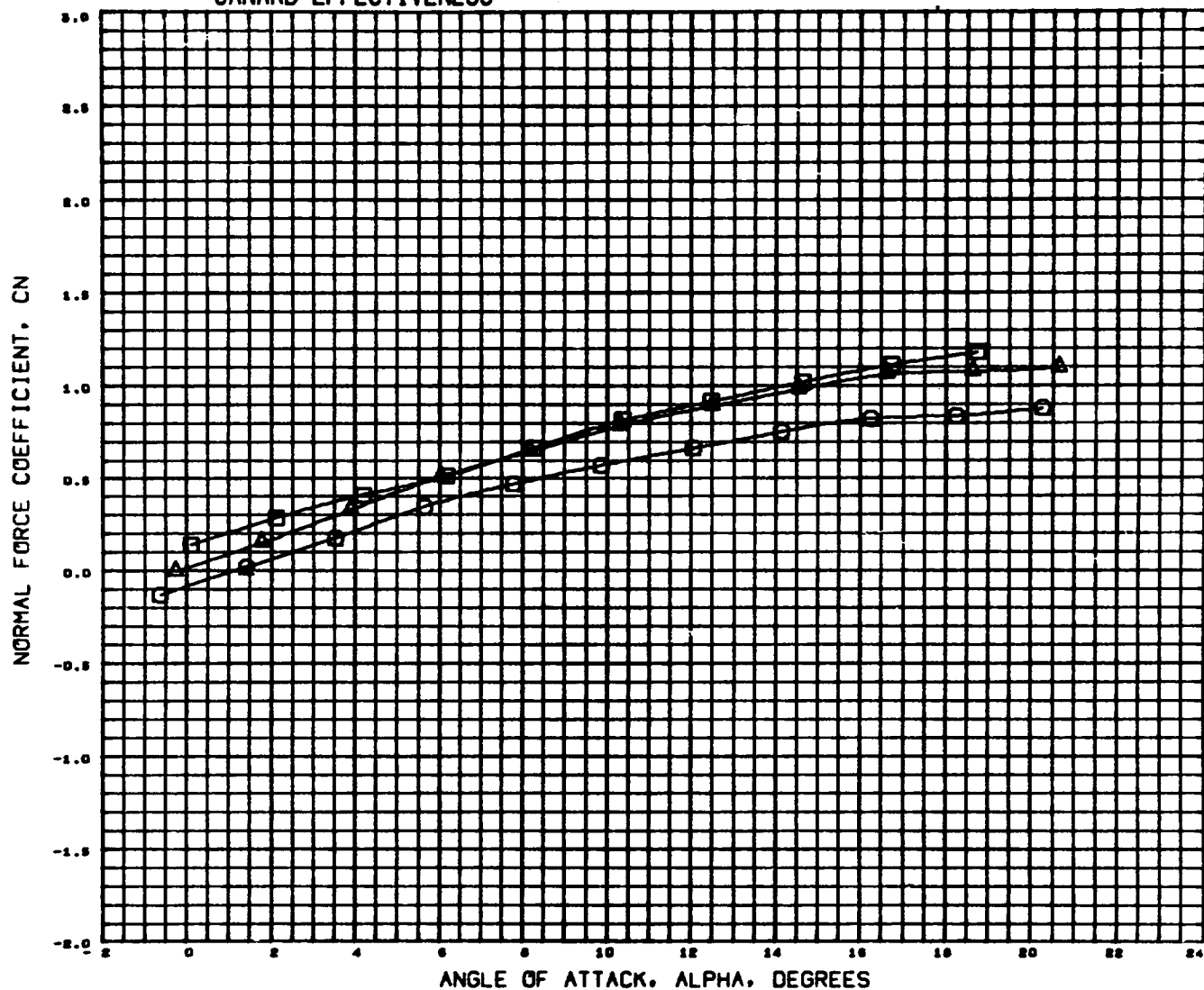
MODEL

B2W6V2C12011 (E3417C)

24 AUG 71

PAGE 108

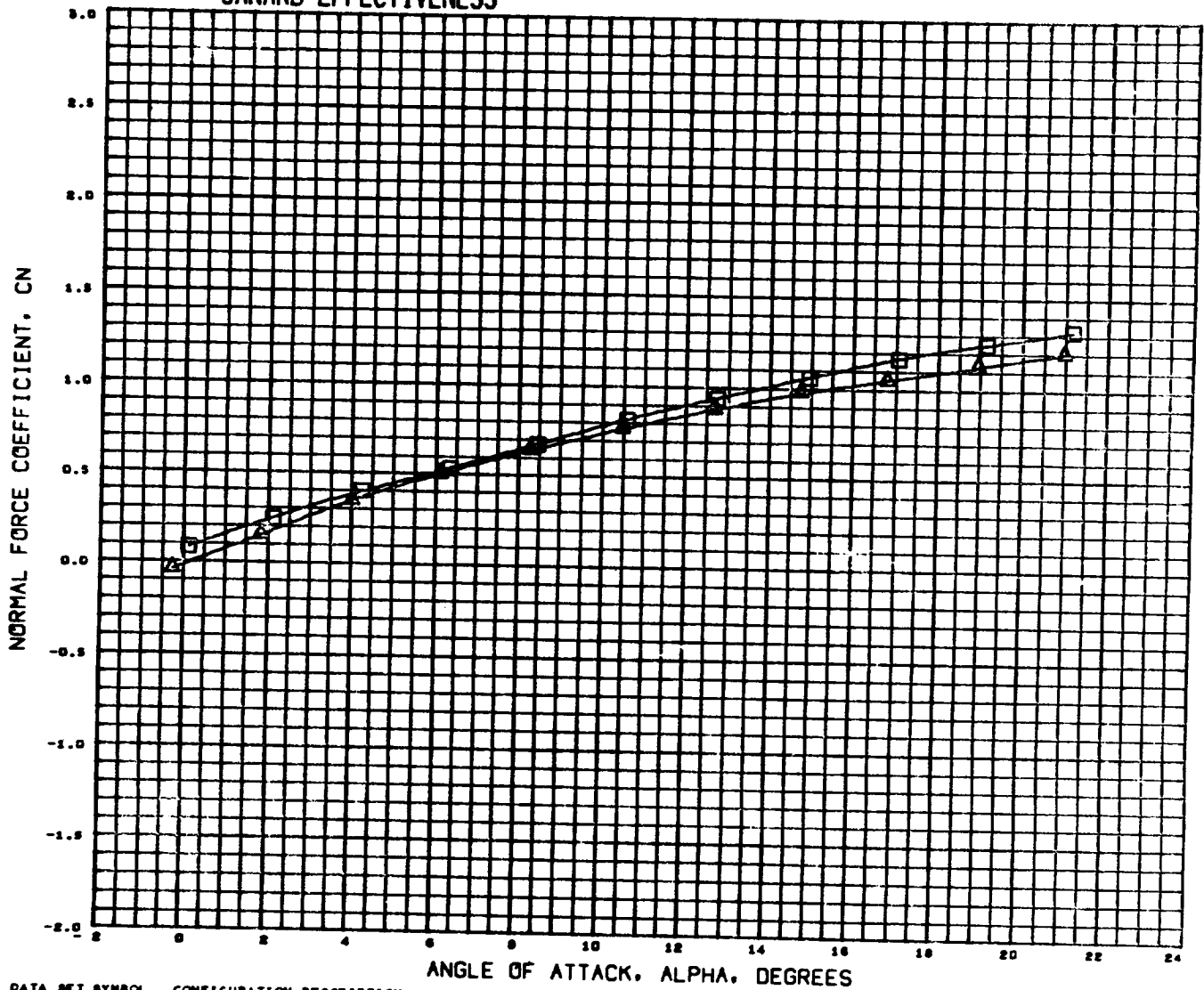
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	M492-M5FC AR1190I-1 MODEL BWSC12V2	0.000	-20.000	0.000	0.000	SREF 4.6225 80.IN.
(E3409A)	M492-M5FC AR1190I-1 MODEL BWSC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	SREF 4.3000 IN.
(E3407A)	M492-M5FC AR1190I-1 MODEL BWSC12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.597

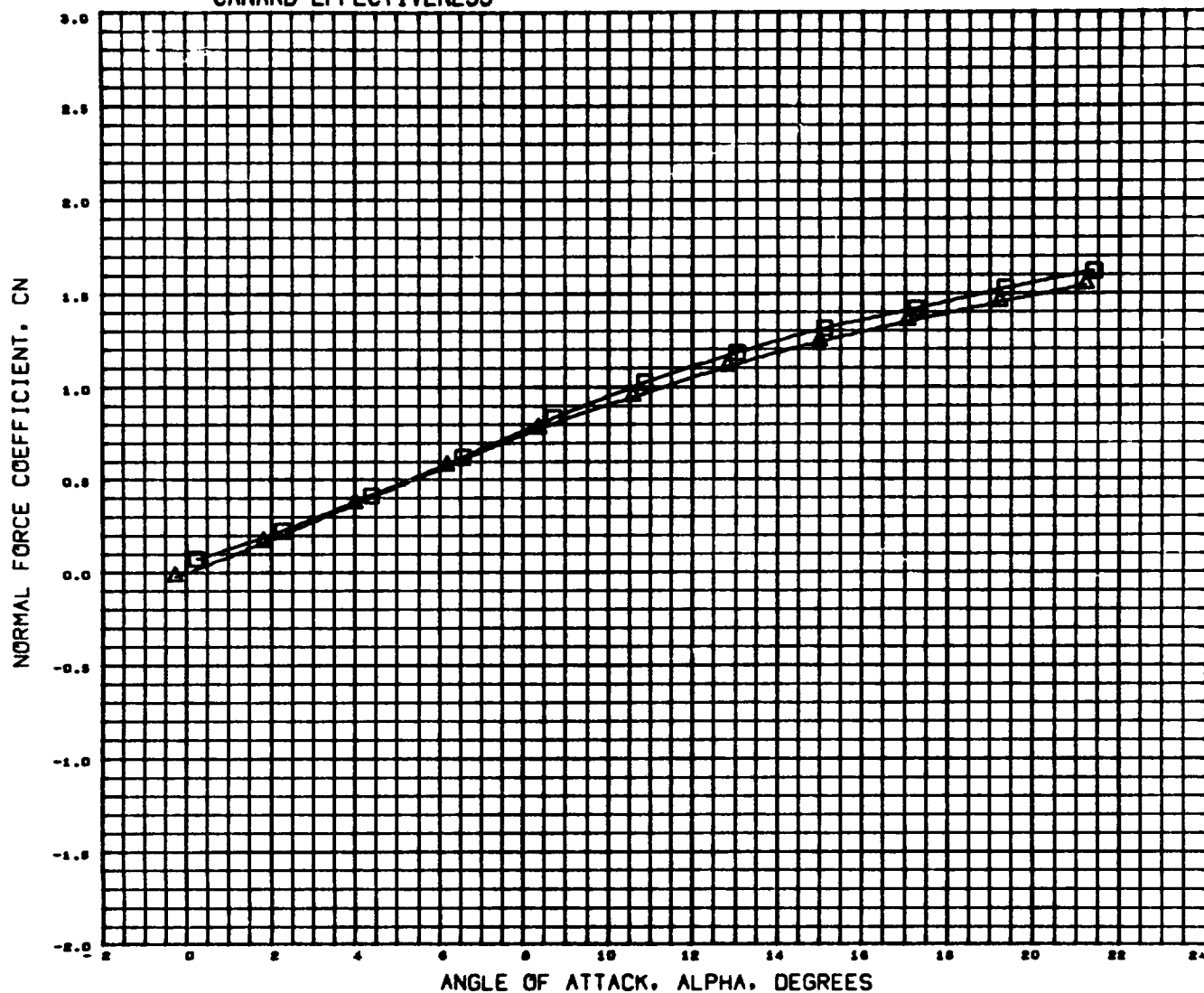
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 30. IN.
(E3405A)	M492-MSFC AR11901-1 MODEL BZWMC12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	SREF	4.3000 IN.
(E3407A)	M492-MSFC AR11901-1 MODEL BZWMC12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.899

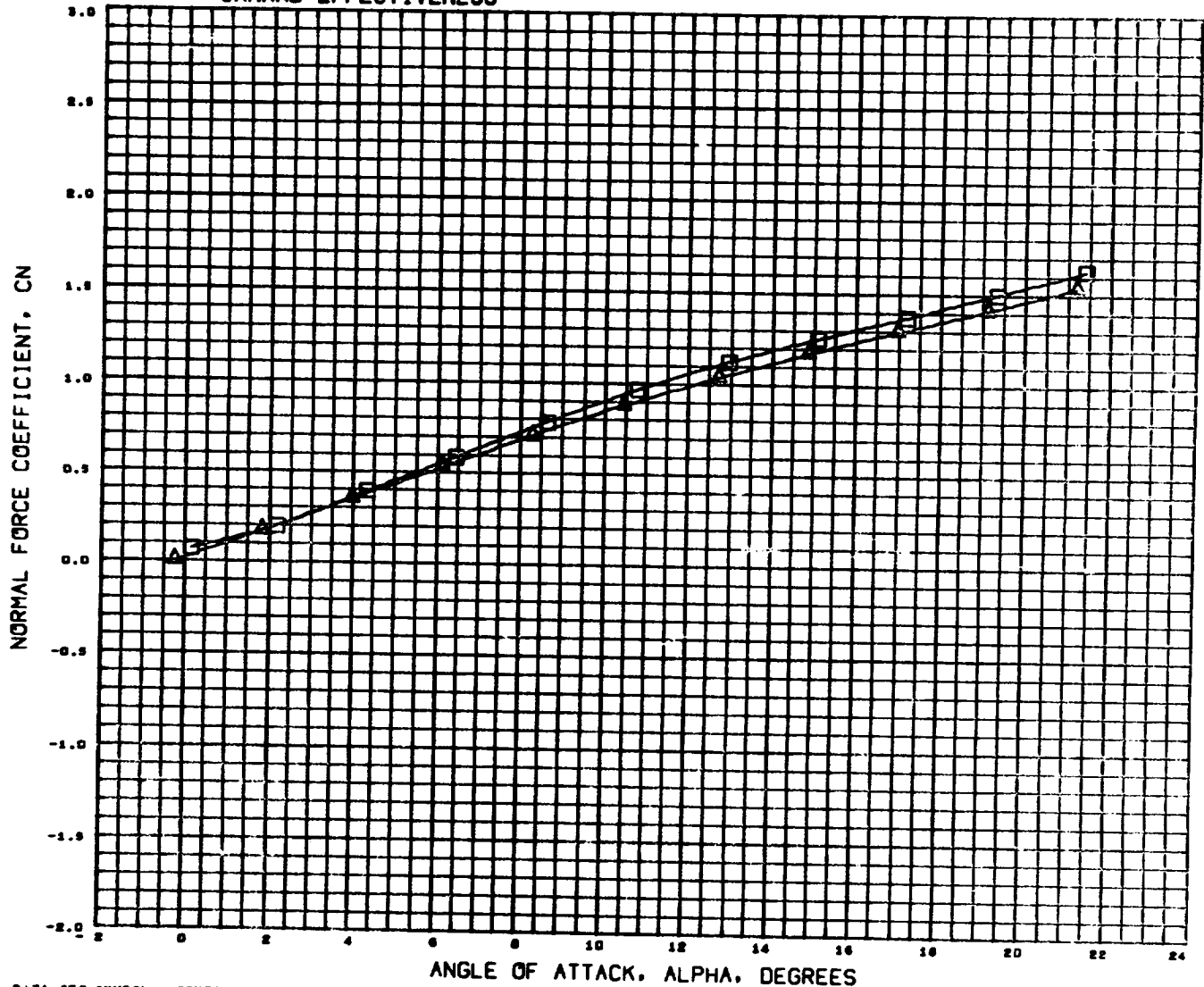
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF	4.6225 SQ. IN.
(E3408A)	M492-NSFC AR11981-1 MODEL 82M6C12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	M492-NSFC AR11981-1 MODEL 82M6C12V2	0.000	20.000	0.000	0.000	XNRP	2.4000 IN.
						YNRP	0.0000 IN.
						ZNRP	0.0000 IN.
						SCALE	0.0025

MACH 1.004

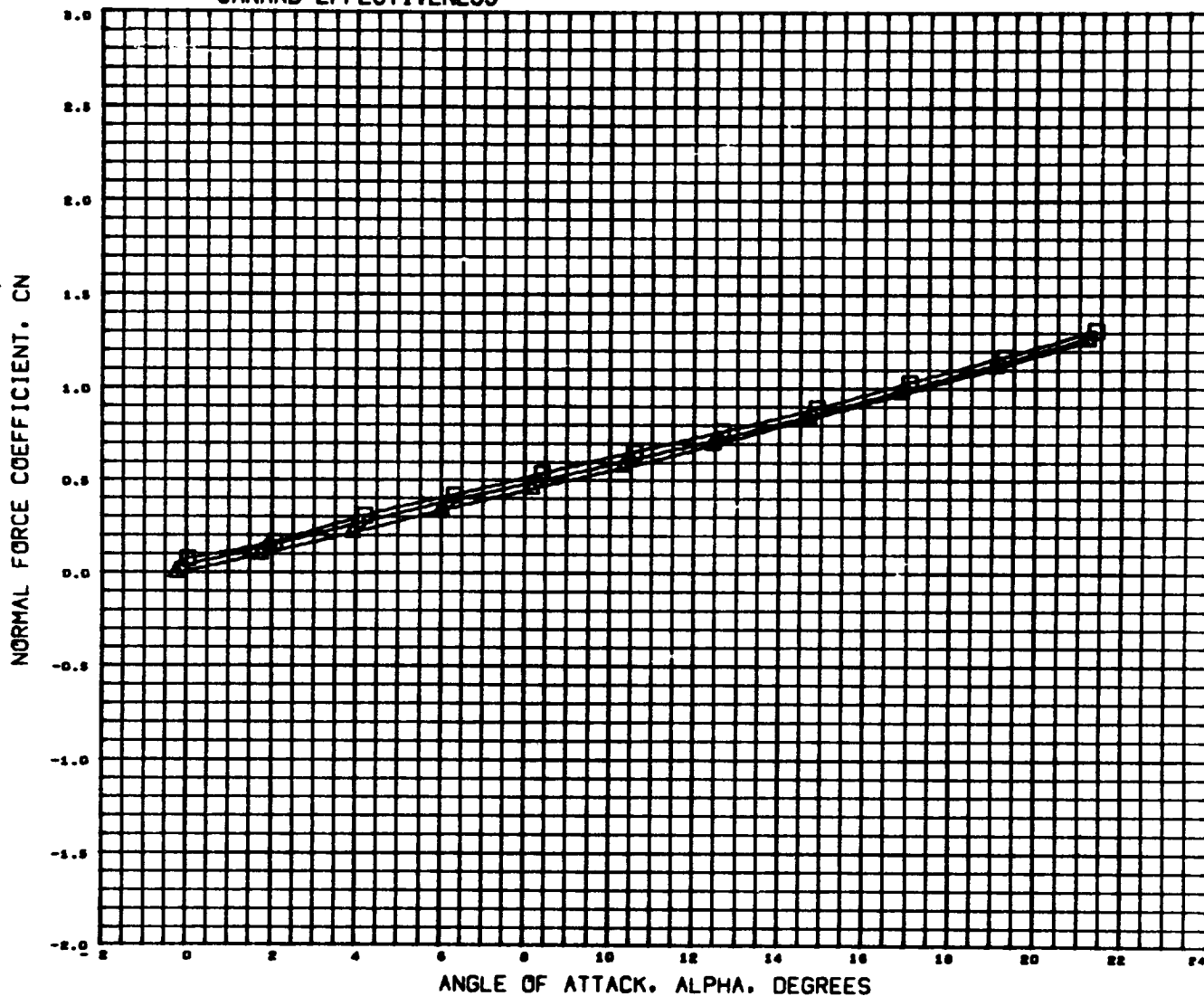
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3409A)	M492-NSFC AR11001-1 MODEL SEM6C1E2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-NSFC AR11001-1 MODEL SEM6C1E2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.196

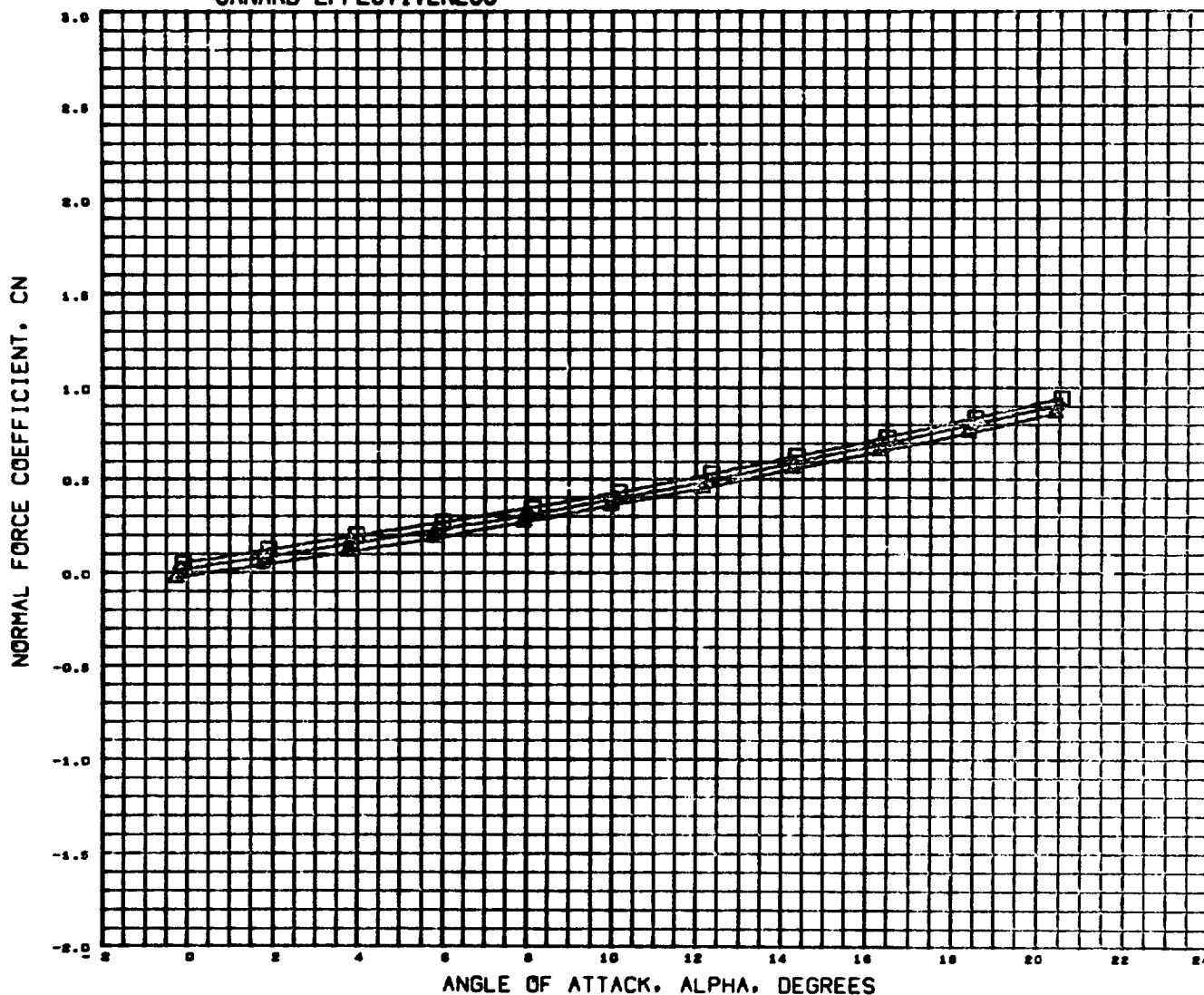
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 80.1N.
(E3405A)	M492-M5FC AR11901-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 1N.
(E3406A)	M492-M5FC AR11901-1 MODEL 82W6C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 1N.
(E3407A)	M492-M5FC AR11901-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 1N.
						YNRP 0.0000 1N.
						ZNRP 0.0000 1N.
						SCALE 0.0025

MACH 1.944

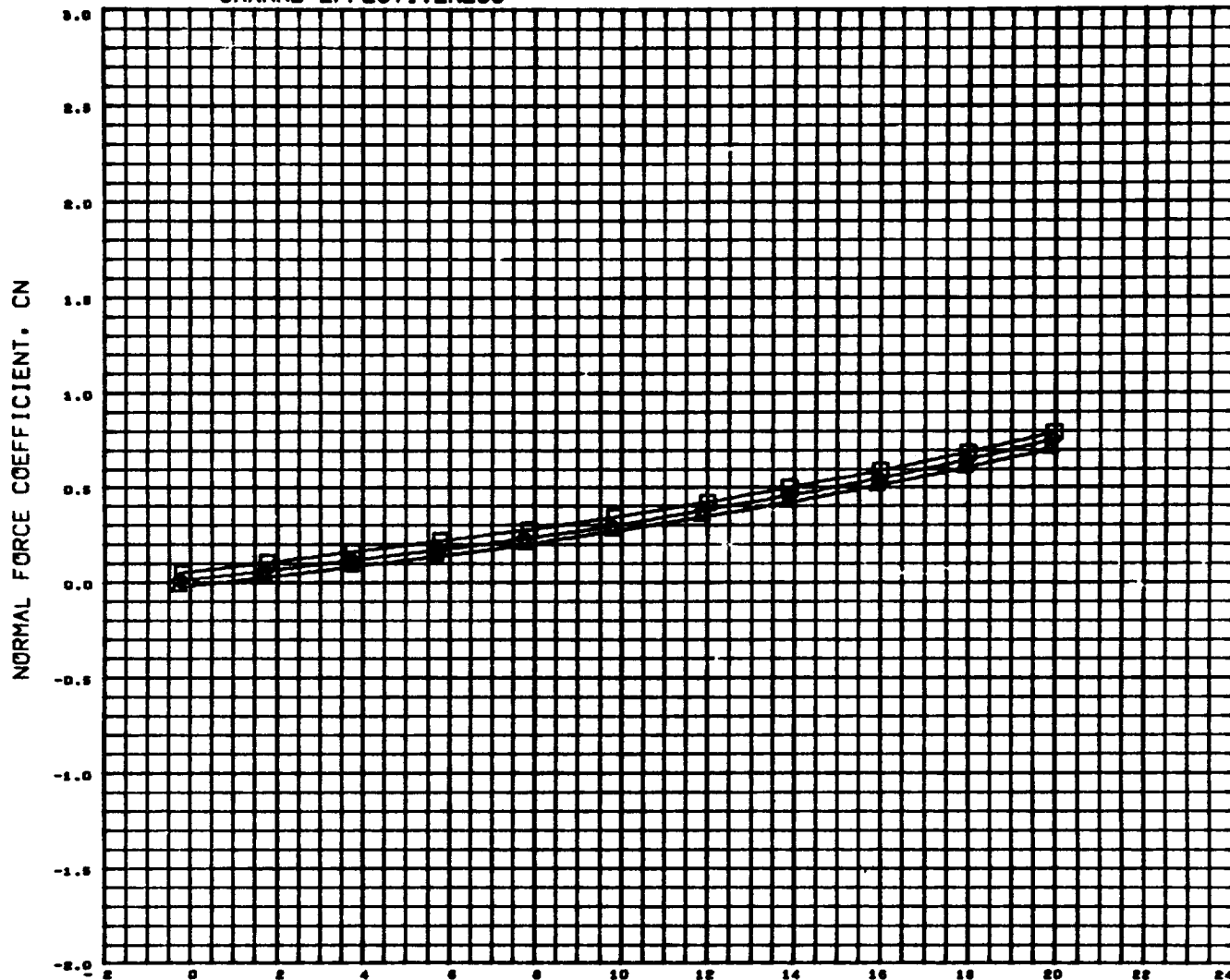
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 30.1N.
(E3409A)	M492-HSFC AR11901-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	M492-HSFC AR11901-1 MODEL B2W6C12V2	0.000	10.000	0.000	0.000	SREF 4.3000 IN.
(E3407A)	M492-HSFC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.400

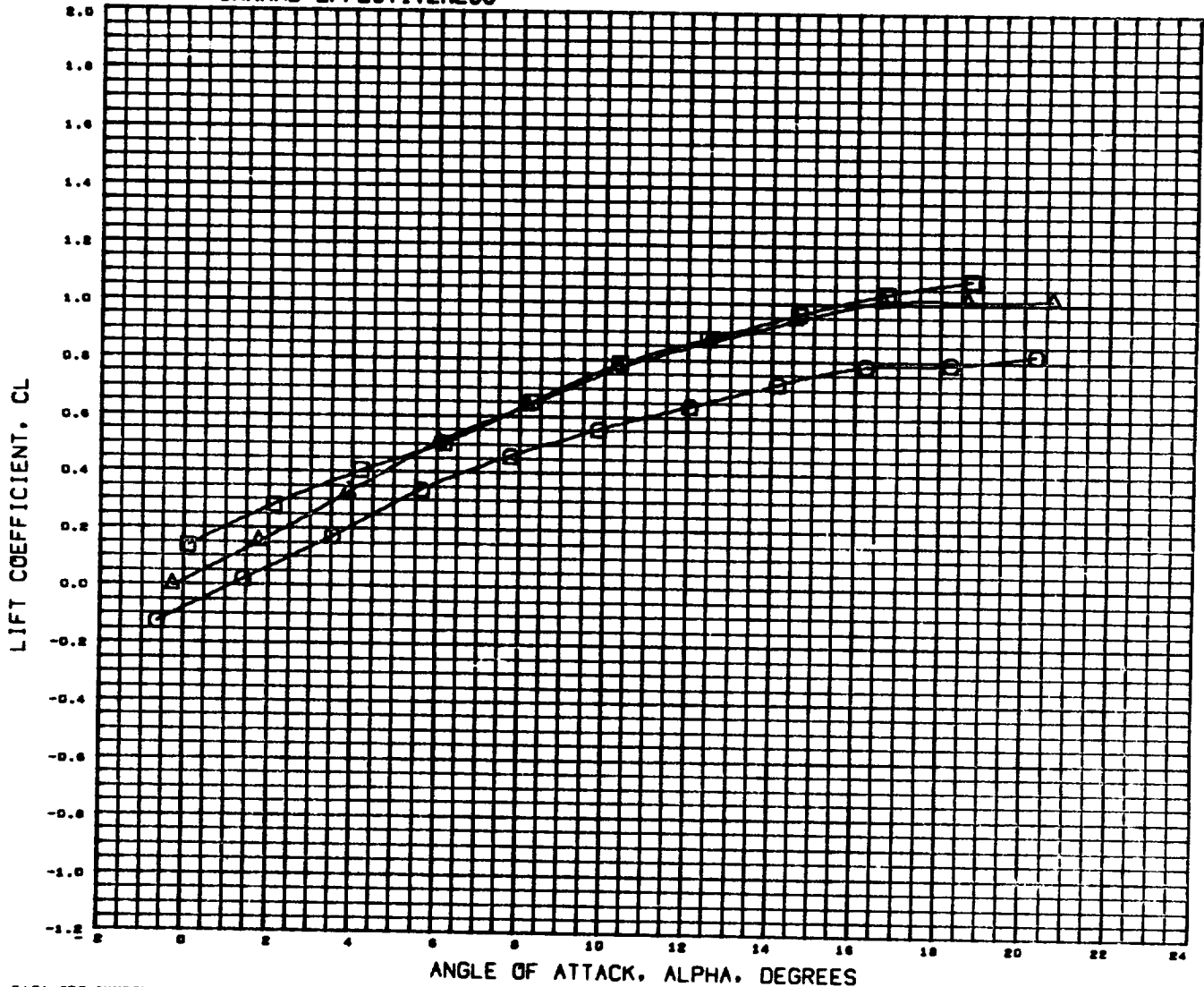
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION		
(E9409A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225	80 IN.
(13409A)	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF	4.3000	IN.
(E9406A)	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	10.000	0.000	0.000	SREF	4.3000	IN.
(E9407A)	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

MACH 4.959

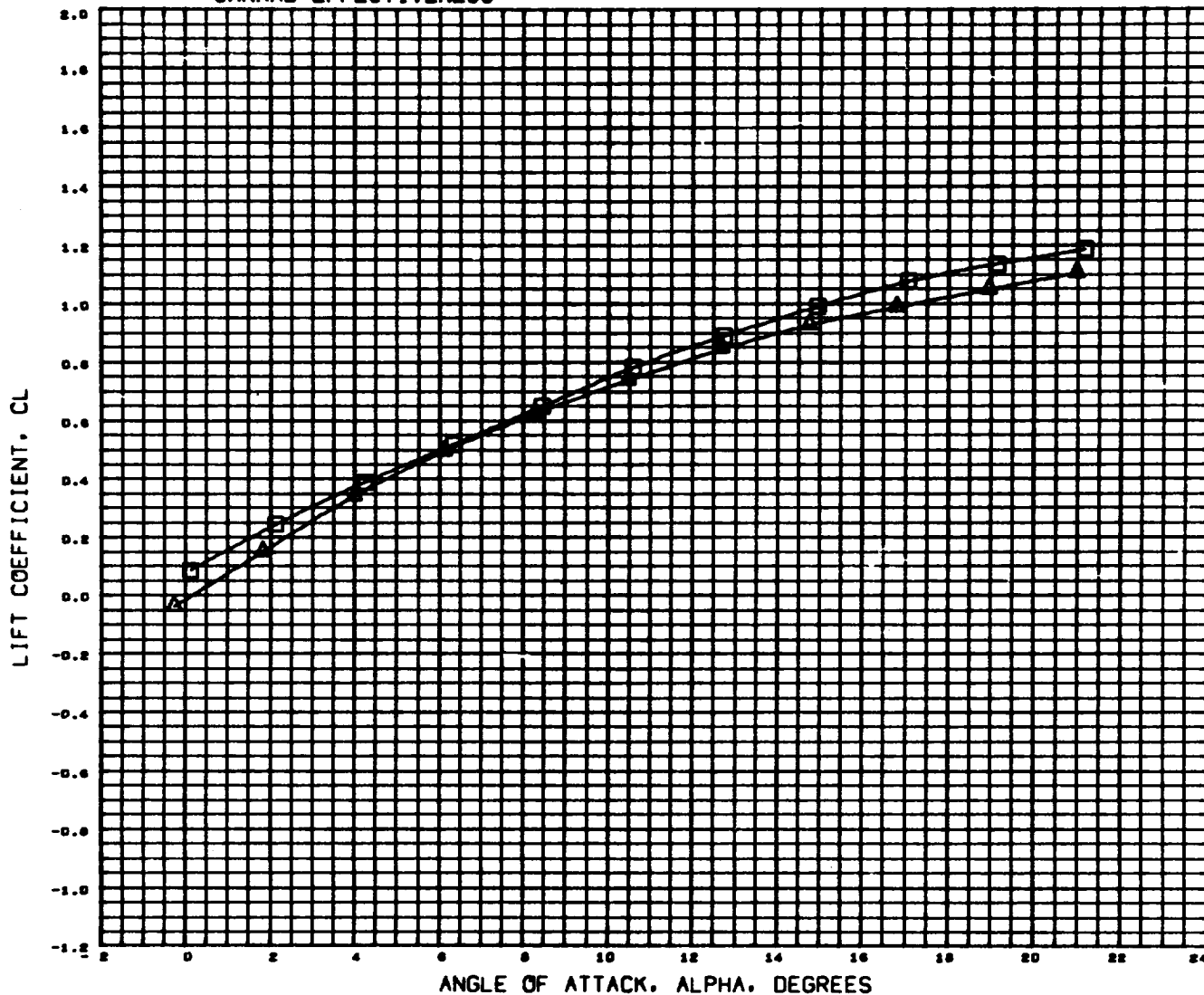
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3400A)	M492-NSFC AR11981-1 MODEL 82WEC12V2	0.000	-20.000	0.000	0.000	SREF 4.6225 50. IN.
(E3405A)	M492-NSFC AR11981-1 MODEL 82WEC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-NSFC AR11981-1 MODEL 82WEC12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.597

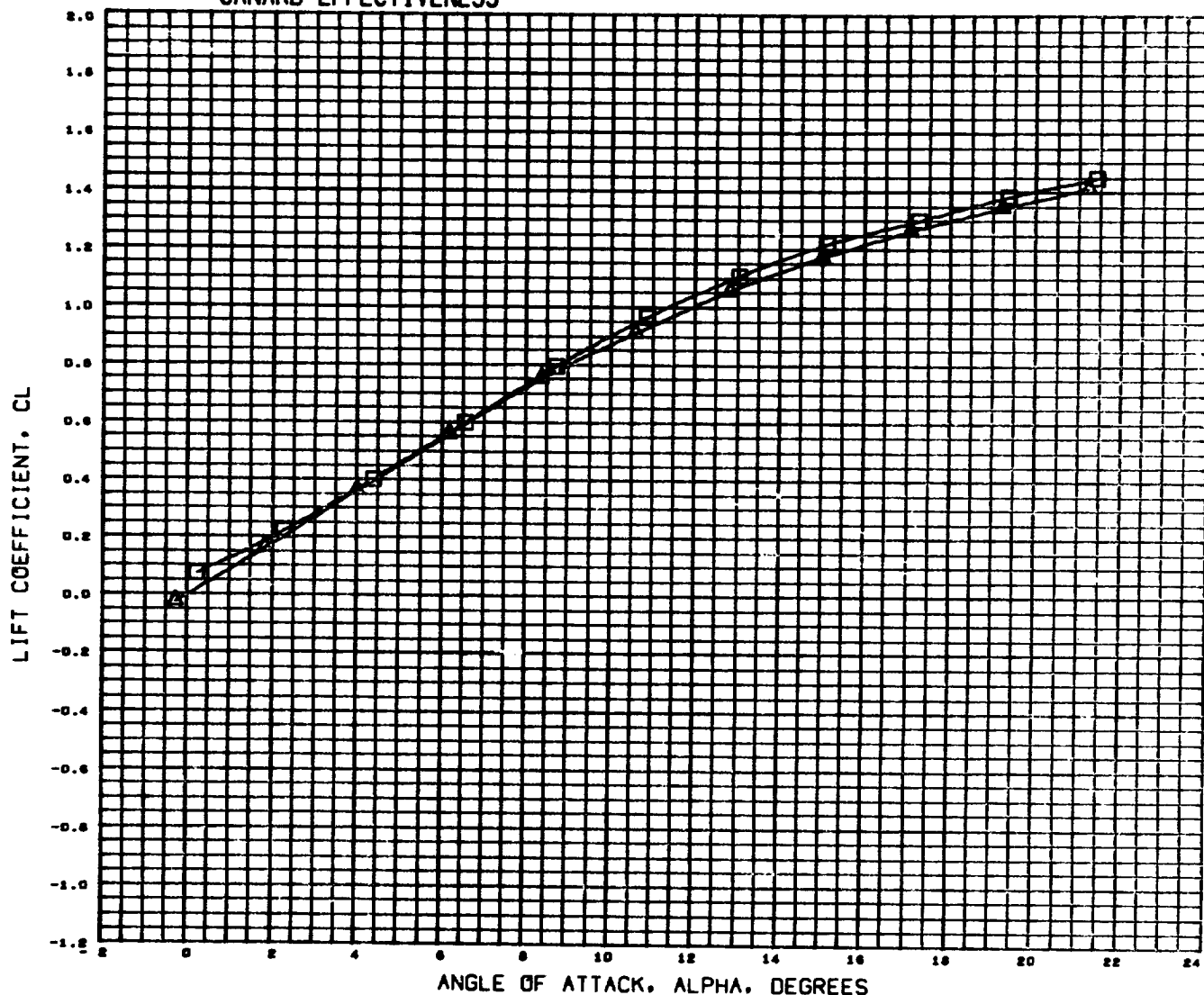
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 80.IN.
(E3409A)	◇	M492-NSFC AR11961-1 MODEL B2M6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	×	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	SREF 4.3000 IN.
(E3407A)	□	M492-NSFC AR11961-1 MODEL B2M6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
							YNRP 0.0000 IN.
							ZNRP 0.0000 IN.
							SCALE 0.0025

MACH 0.809

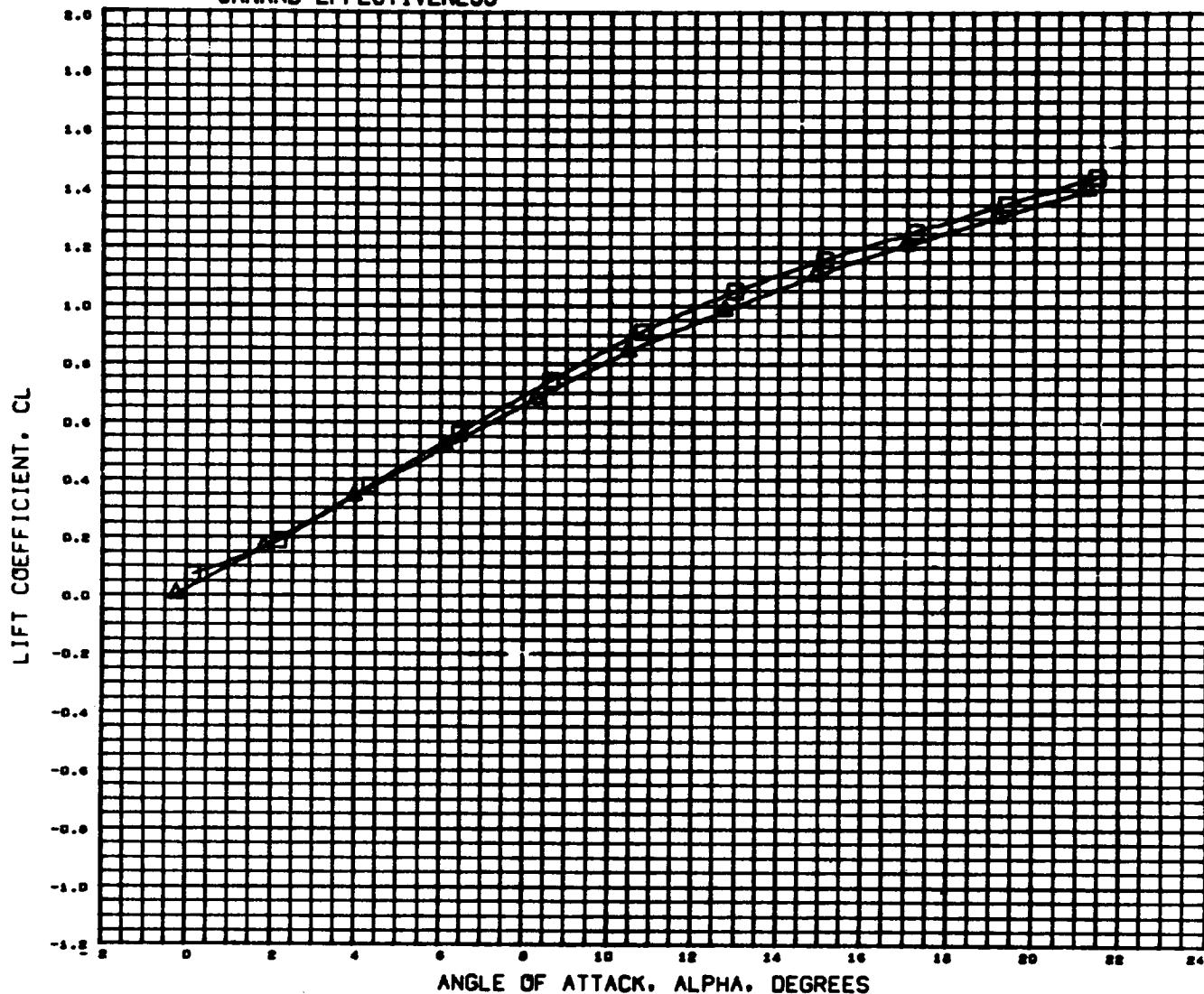
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTH	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 38. IN.
(E3409A)	M492-MSFC AR11981-1 MODEL BZW6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-MSFC AR11981-1 MODEL BZW6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.004

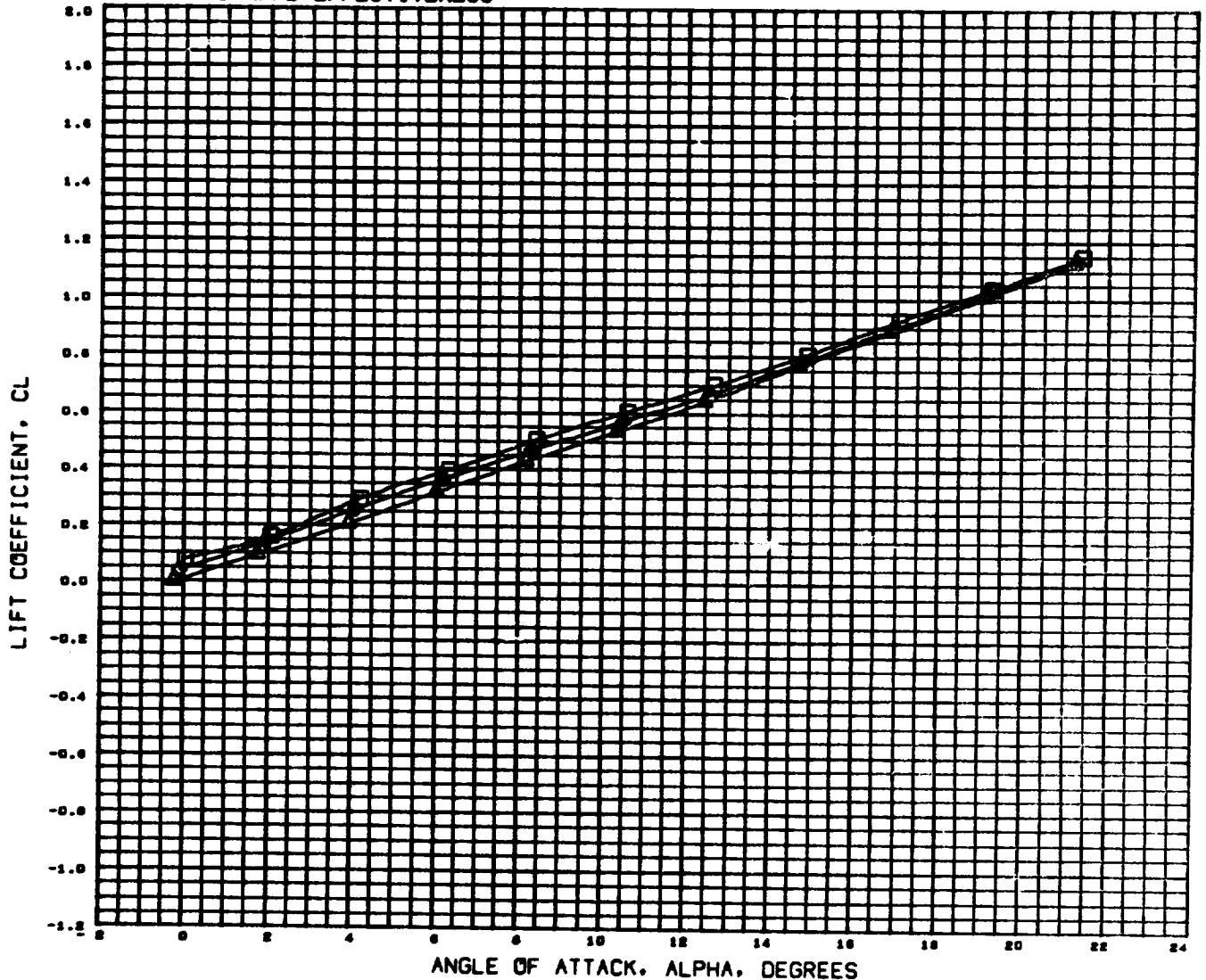
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 IN.
(E3409A)	N492-NSFC AR11991-1 MODEL B2MNC12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	N492-NSFC AR11991-1 MODEL B2MNC12V2	0.000	20.000	0.000	0.000	ZRRP	8.4000 IN.
						YRRP	0.0000 IN.
						ZRRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

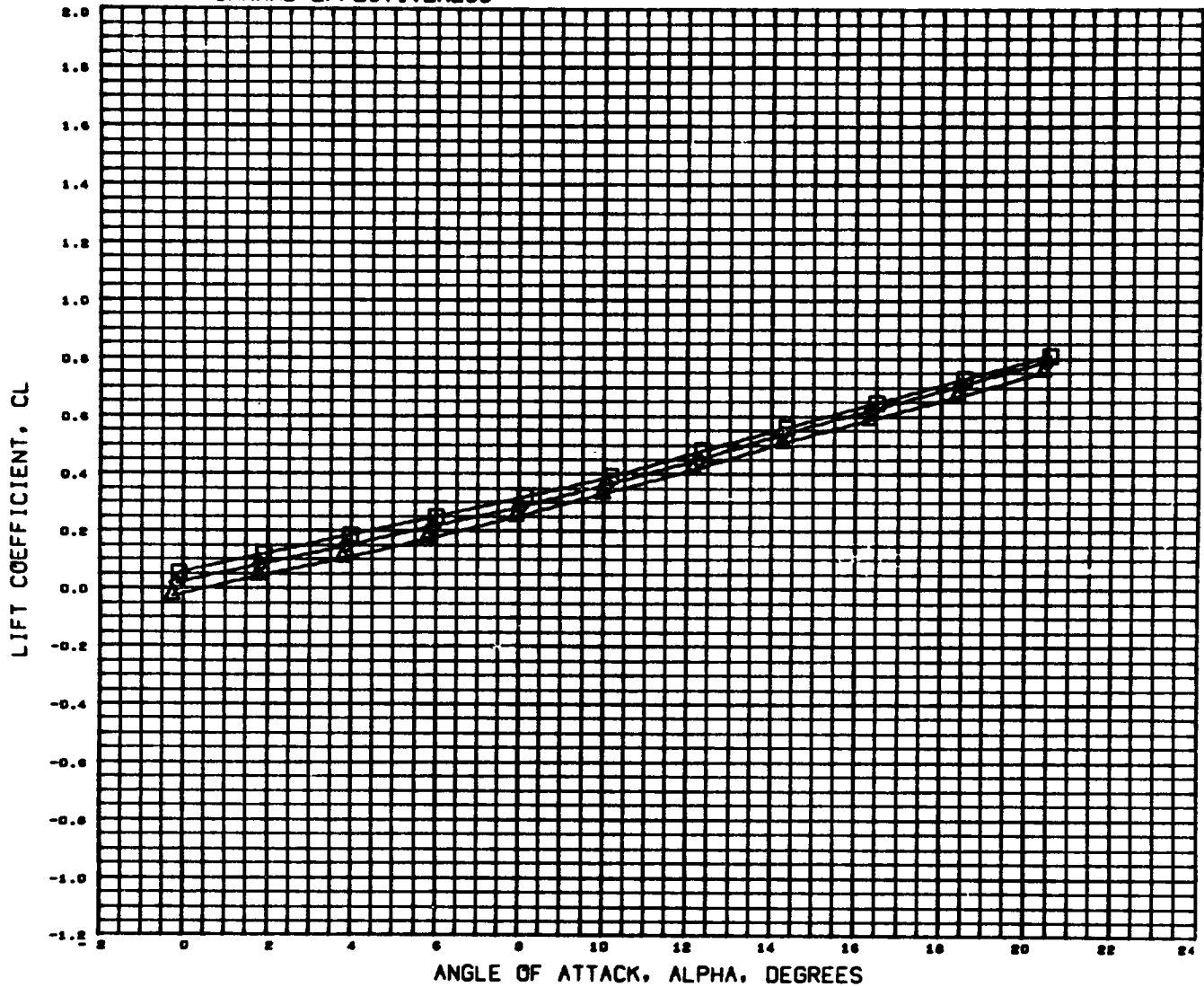
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 50.IN.
(E3405A)	M492-NBFC AR11981-1 MODEL	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	M492-NBFC AR11981-1 MODEL	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-NBFC AR11981-1 MODEL	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 1.944

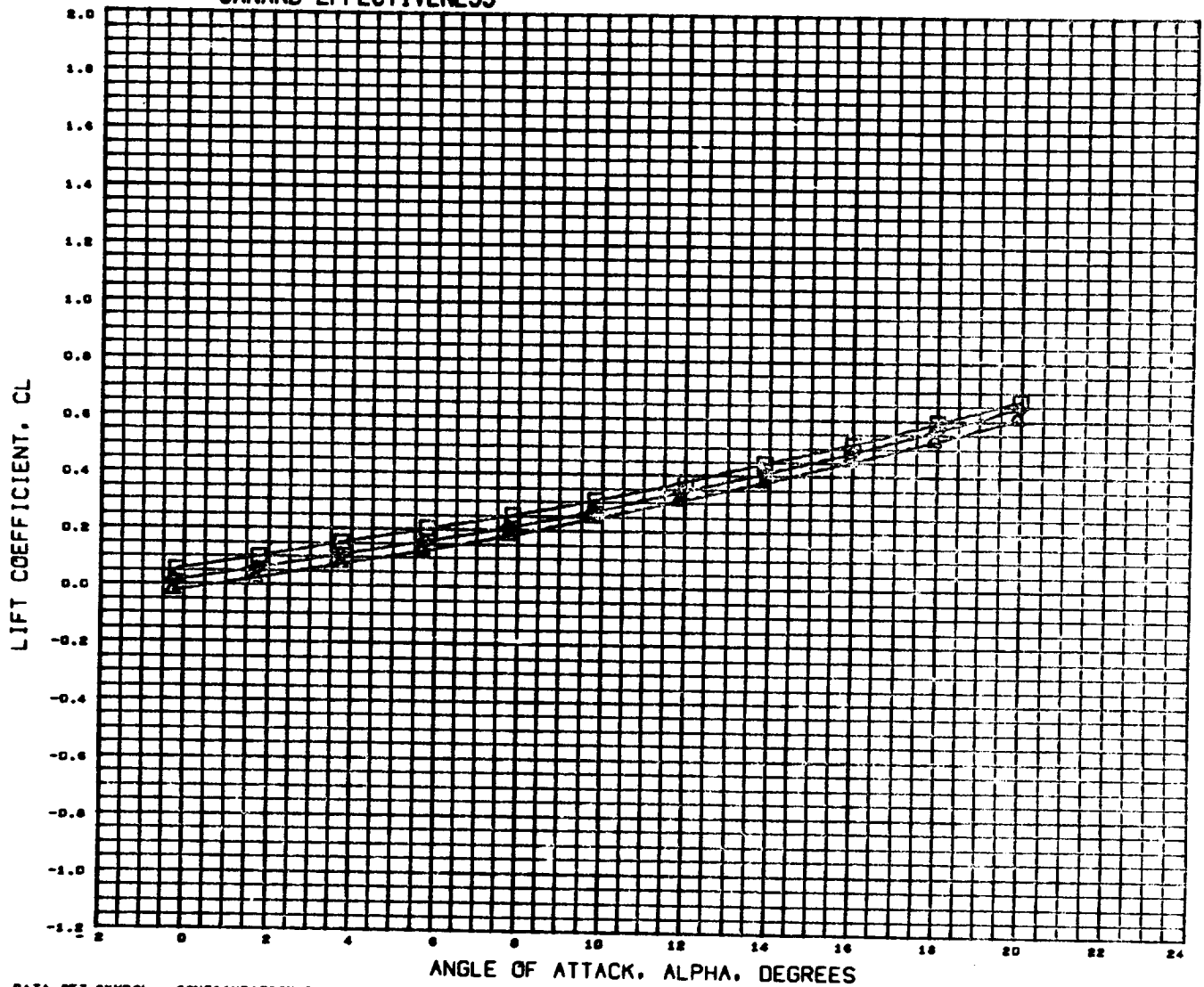
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 80.IN.
(E3407A)	M492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3408A)	M492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3409A)	M492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

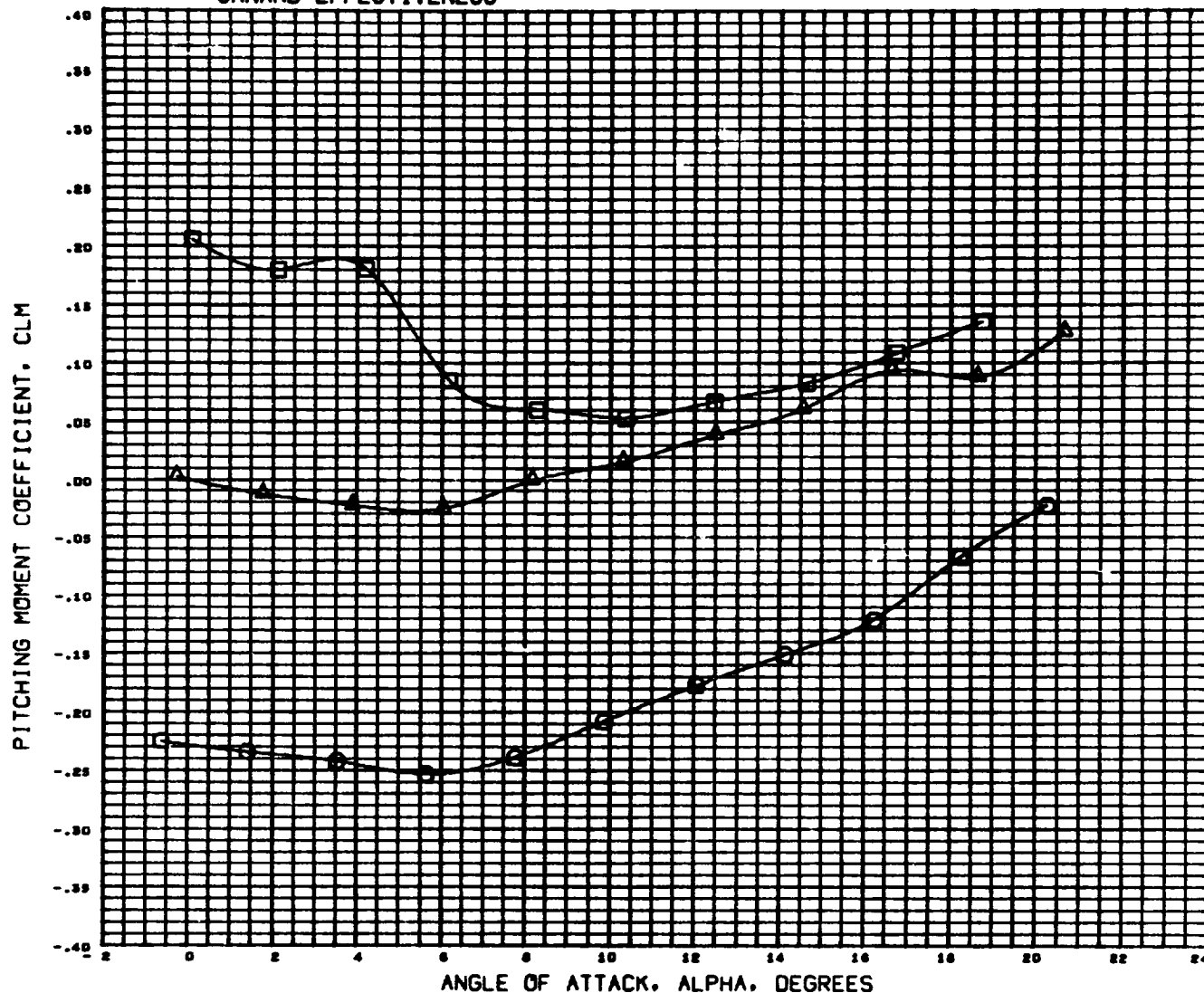
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 50. IN.
(E3405A)	M492-NSFC AR11901-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	M492-NSFC AR11901-1 MODEL 82W6C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-NSFC AR11901-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

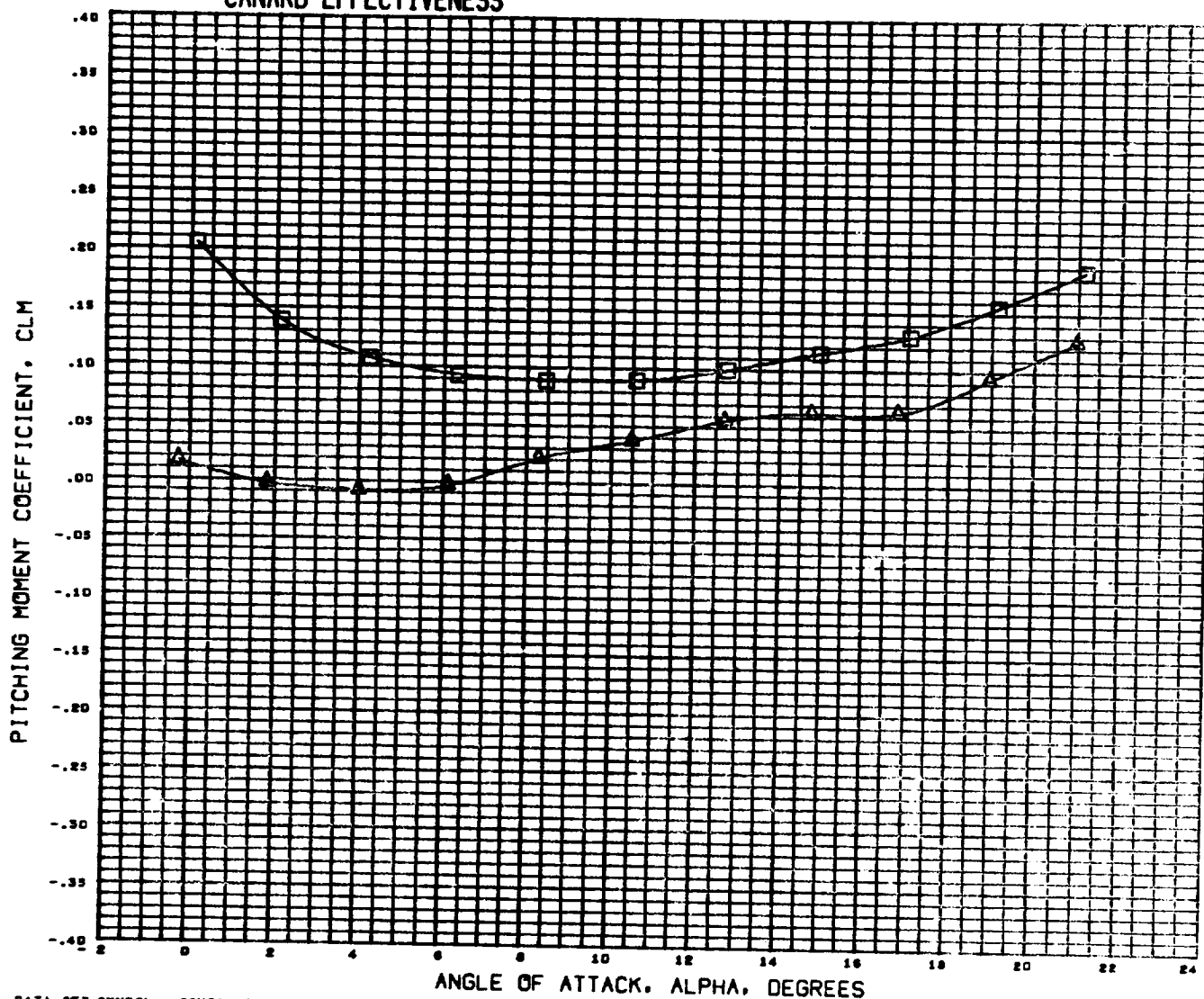
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	N492-HSFC AR11991-1 MODEL BWSC12V2	0.000	-20.000	0.000	0.000	BREF 4.6225 99. IN.
(E3405A)	△	N492-HSFC AR11991-1 MODEL BWSC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	□	N492-HSFC AR11991-1 MODEL BWSC12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
							YNRP 0.0000 IN.
							ZNRP 0.0000 IN.
							SCALE 0.0025

MACH 0.597

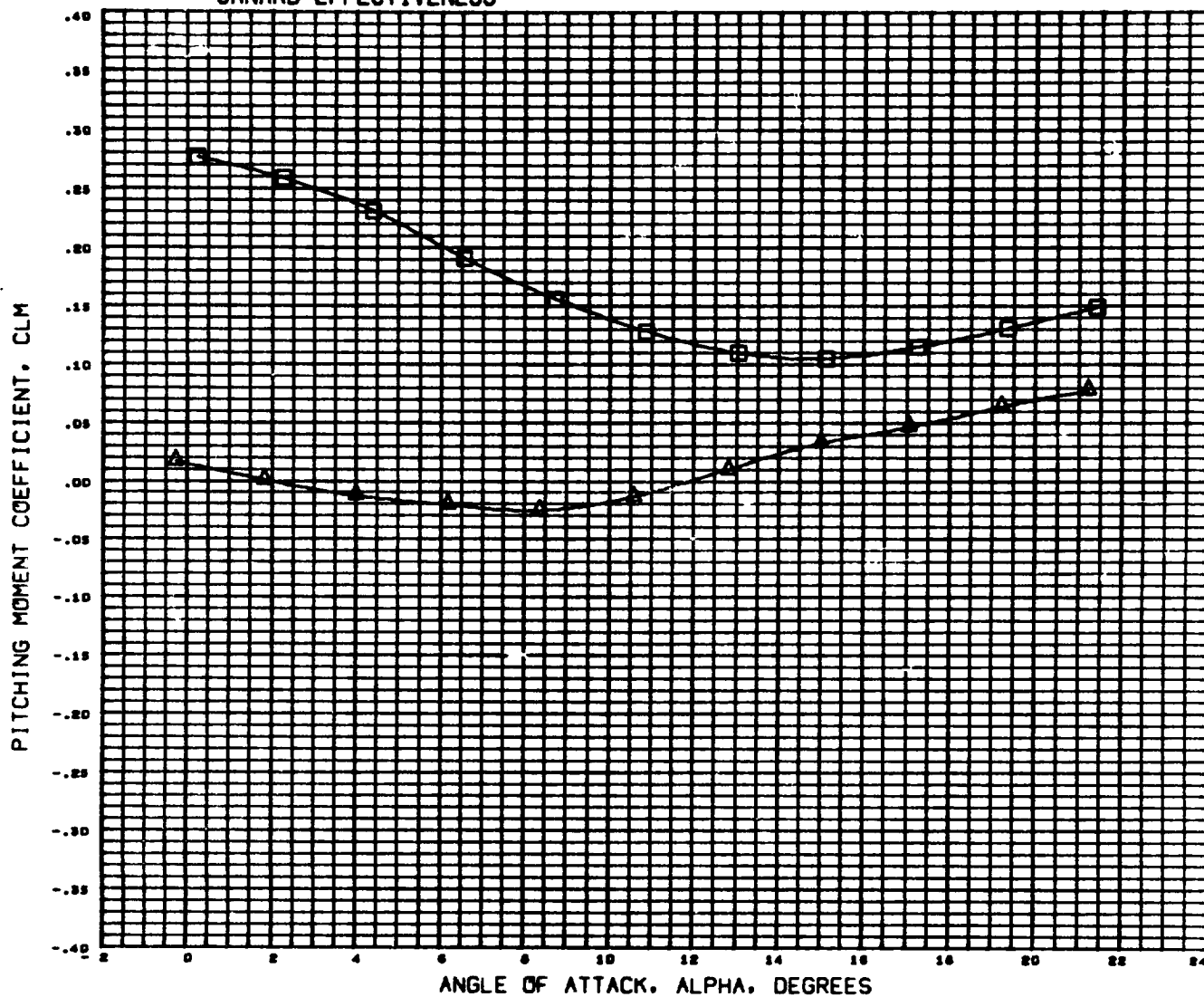
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 38.1N.
(E3405A)	M492-HSFC AR11901-1 MODEL 82WMC12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	M492-HSFC AR11901-1 MODEL 82WMC12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.899

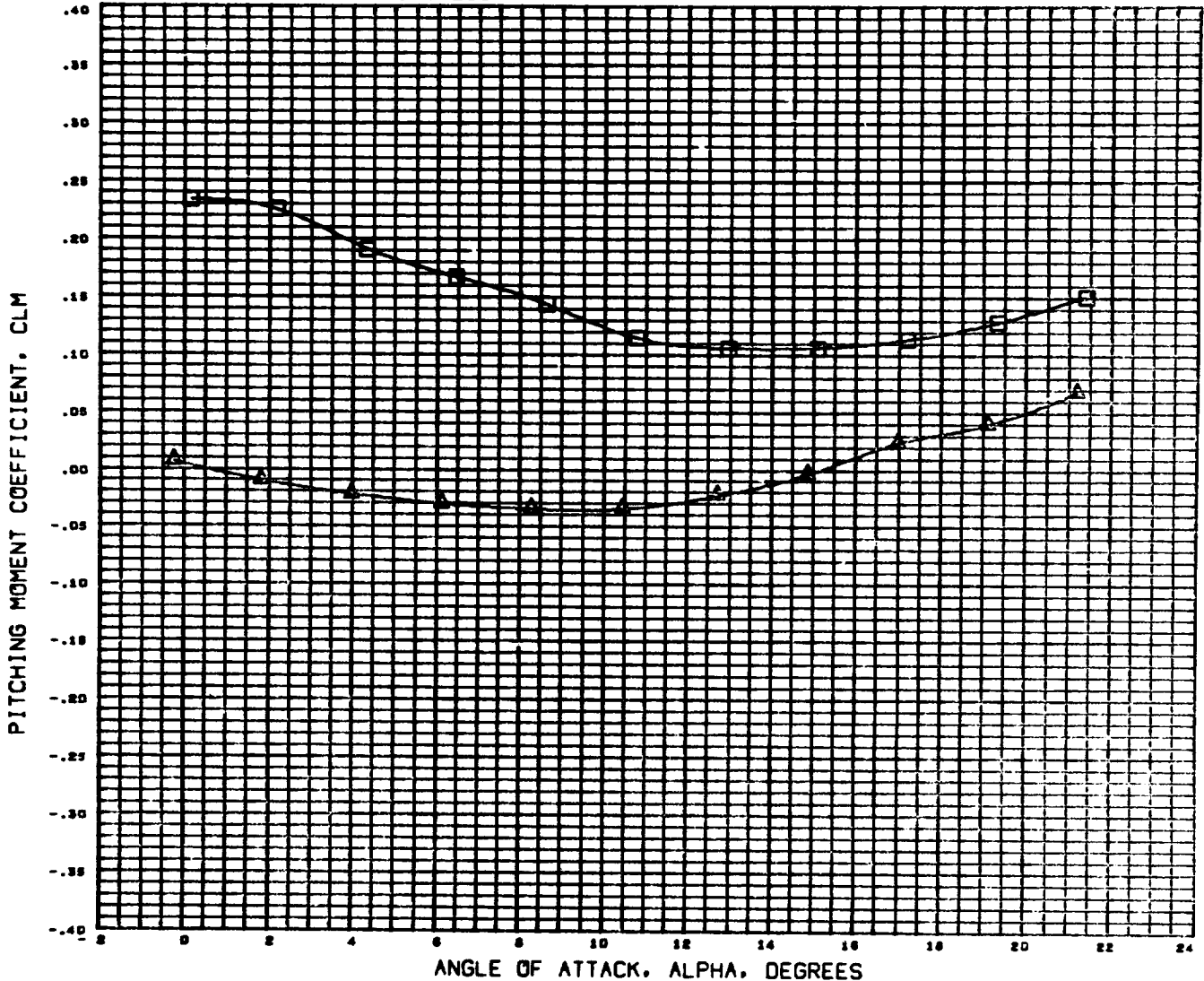
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3409A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 50 IN.
(E3409A)	M492-NSFC AR11981-1 MODEL	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3409A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	SREF	4.3000 IN.
(E3407A)	M492-NSFC AR11981-1 MODEL	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 1.004

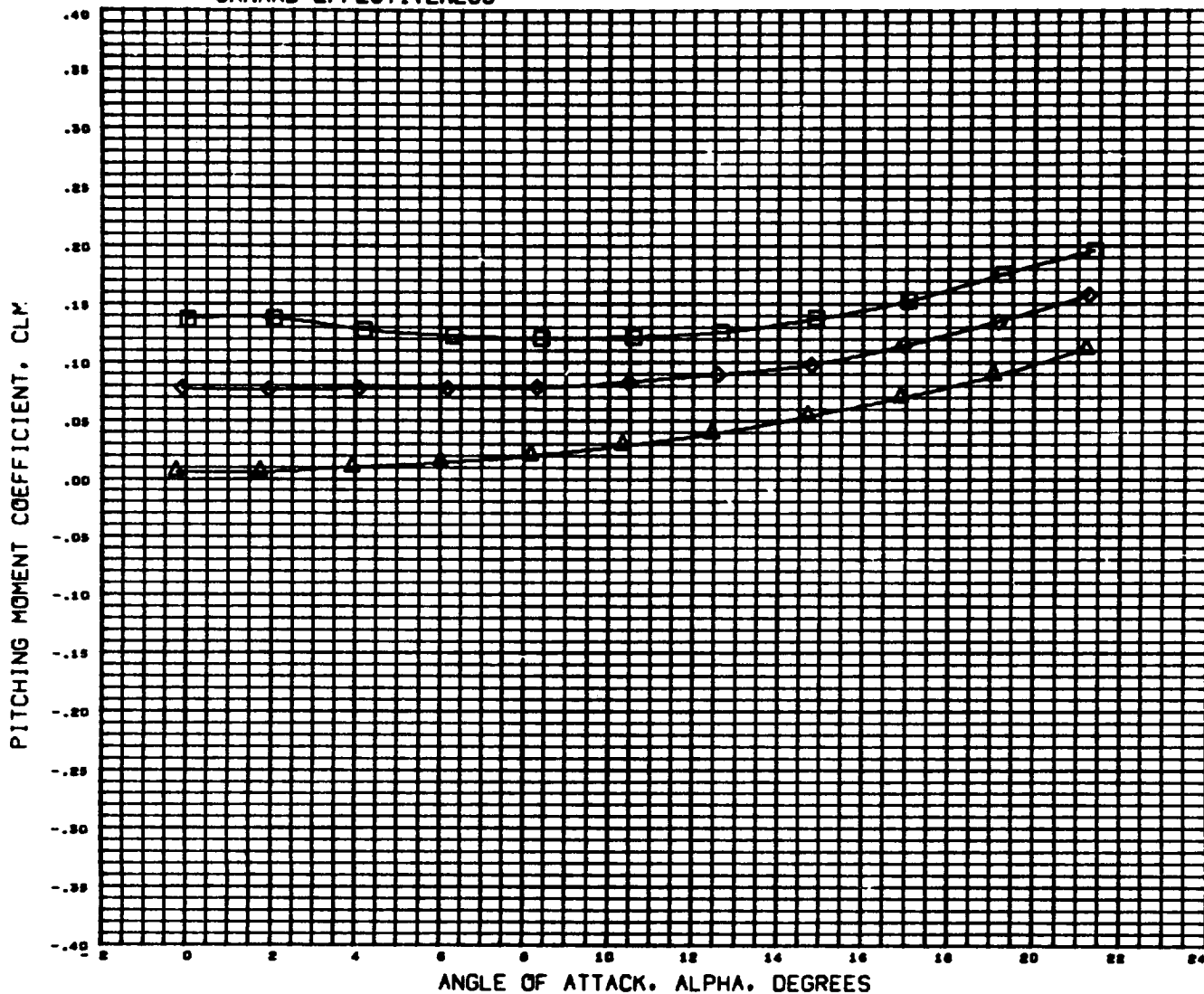
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3409A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3405A)	M49Z-NSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	M49Z-NSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

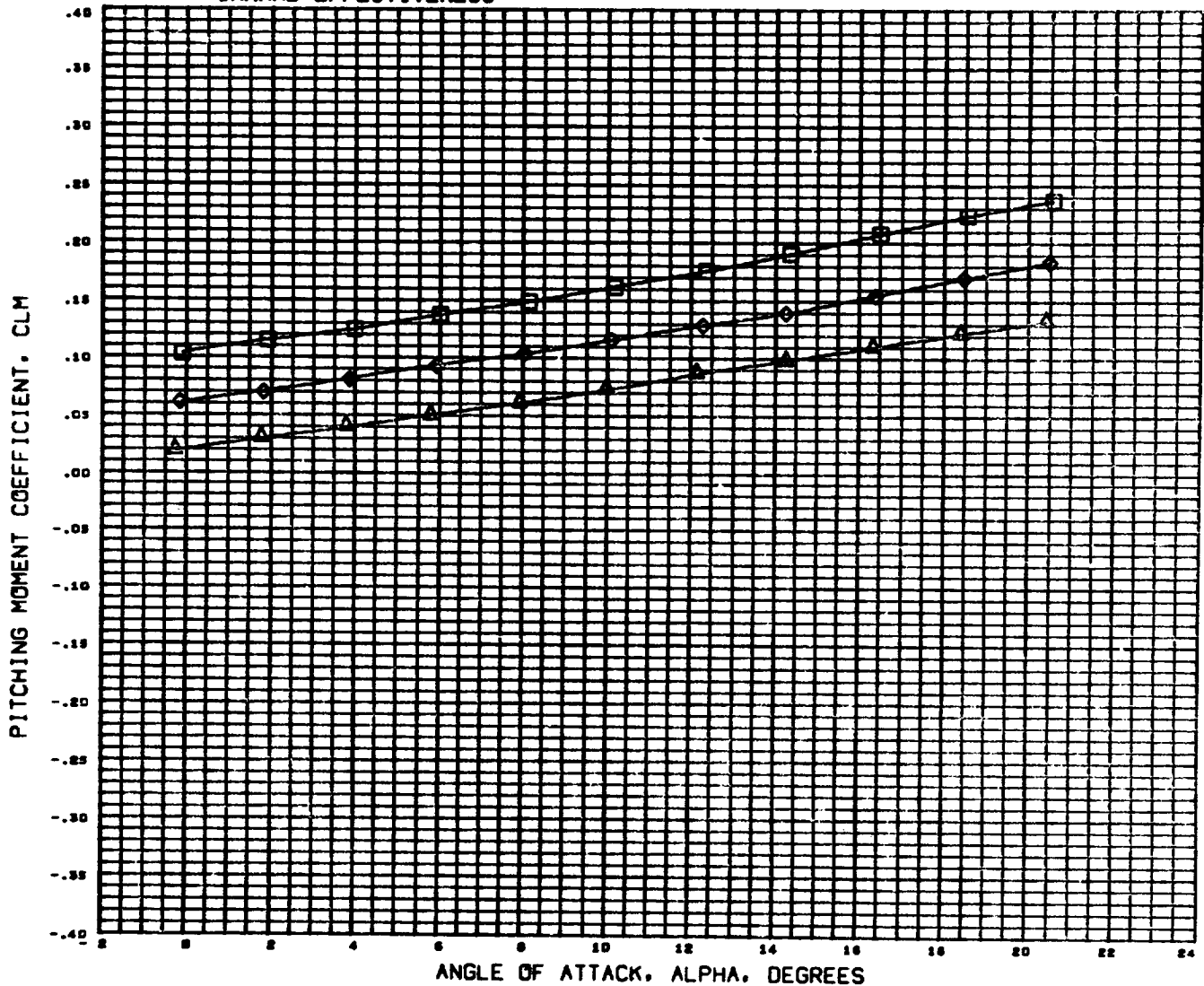
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SRF 4.6225 86. IN.
(E3403A)	M492-HSFC AR11961-1 MODEL B2WMC12V2	0.000	0.000	0.000	0.000	LREF 4.5000 IN.
(E3406A)	M492-HSFC AR11961-1 MODEL B2WMC12V2	0.000	10.000	0.000	0.000	SRF 4.5000 IN.
(E3407A)	M492-HSFC AR11961-1 MODEL B2WMC12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.944

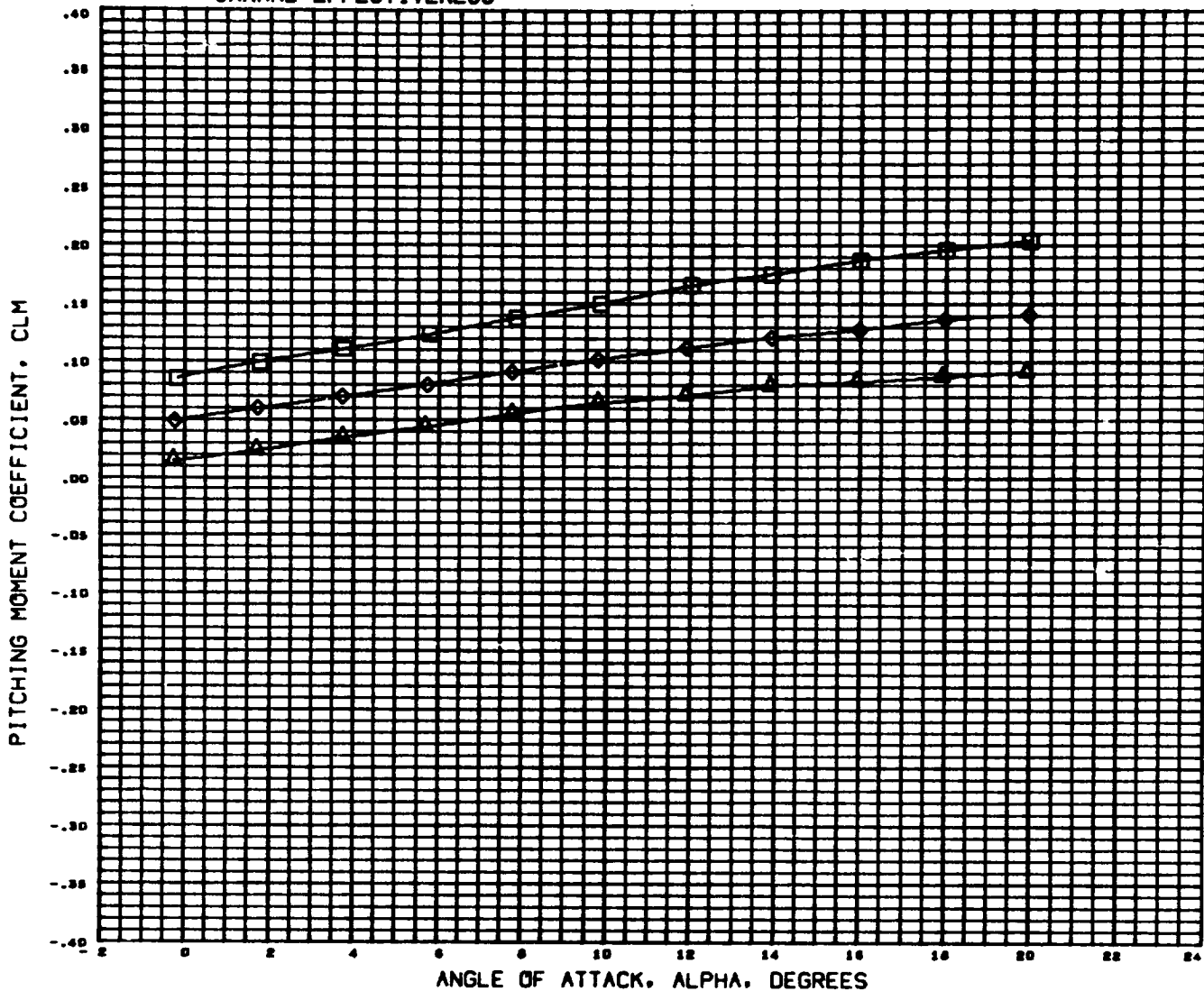
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 58. IN.
(E3409A)	N49Z-NSFC AR11001-1 MODEL SEWNCIEVE	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	N49Z-NSFC AR11001-1 MODEL SEWNCIEVE	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	N49Z-NSFC AR11001-1 MODEL SEWNCIEVE	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 5.400

CANARD EFFECTIVENESS

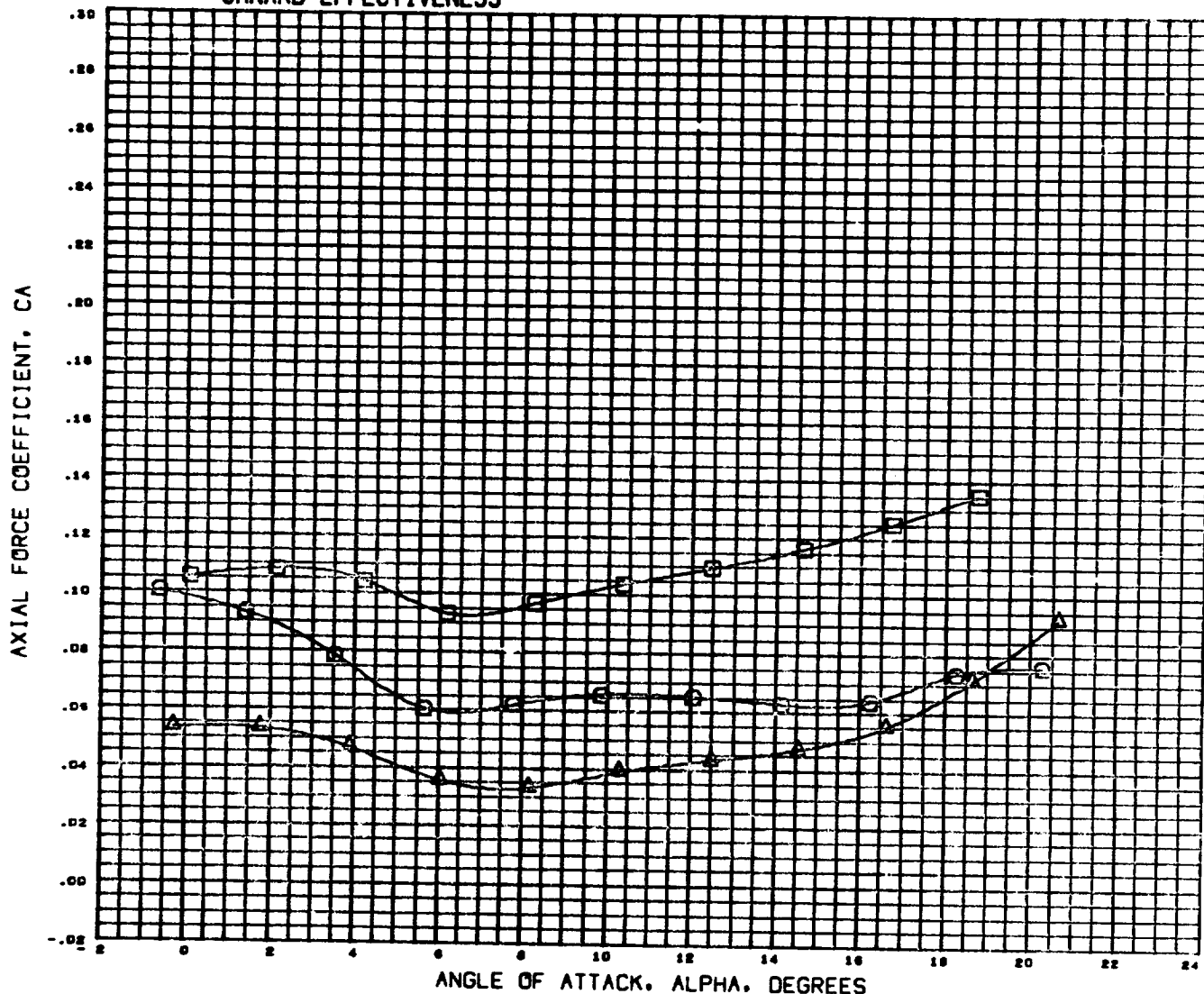


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 80. IN.
(E3409A)	N492-MSFC AR11901-1 MODEL SEWNC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	N492-MSFC AR11901-1 MODEL SEWNC12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	N492-MSFC AR11901-1 MODEL SEWNC12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

⑦ 7

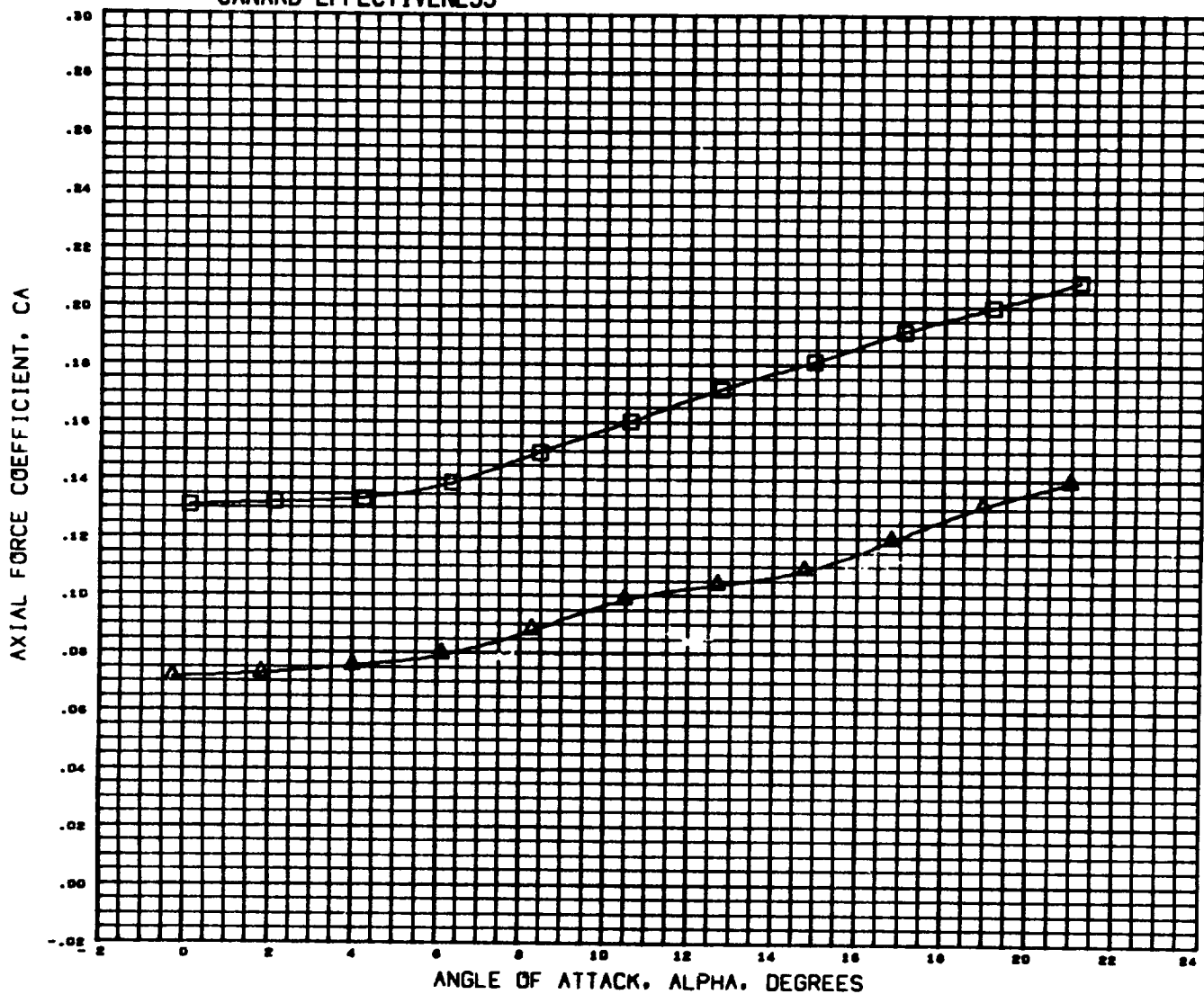
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DATA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405A)	M492-N3FC AR11901-1 MODEL B2W6C12V2	0.000	-20.000	0.000	0.000	SREF 4.6225 50.IN.
(E3406A)	M492-N3FC AR11901-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3407A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3408A)	M492-N3FC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.997

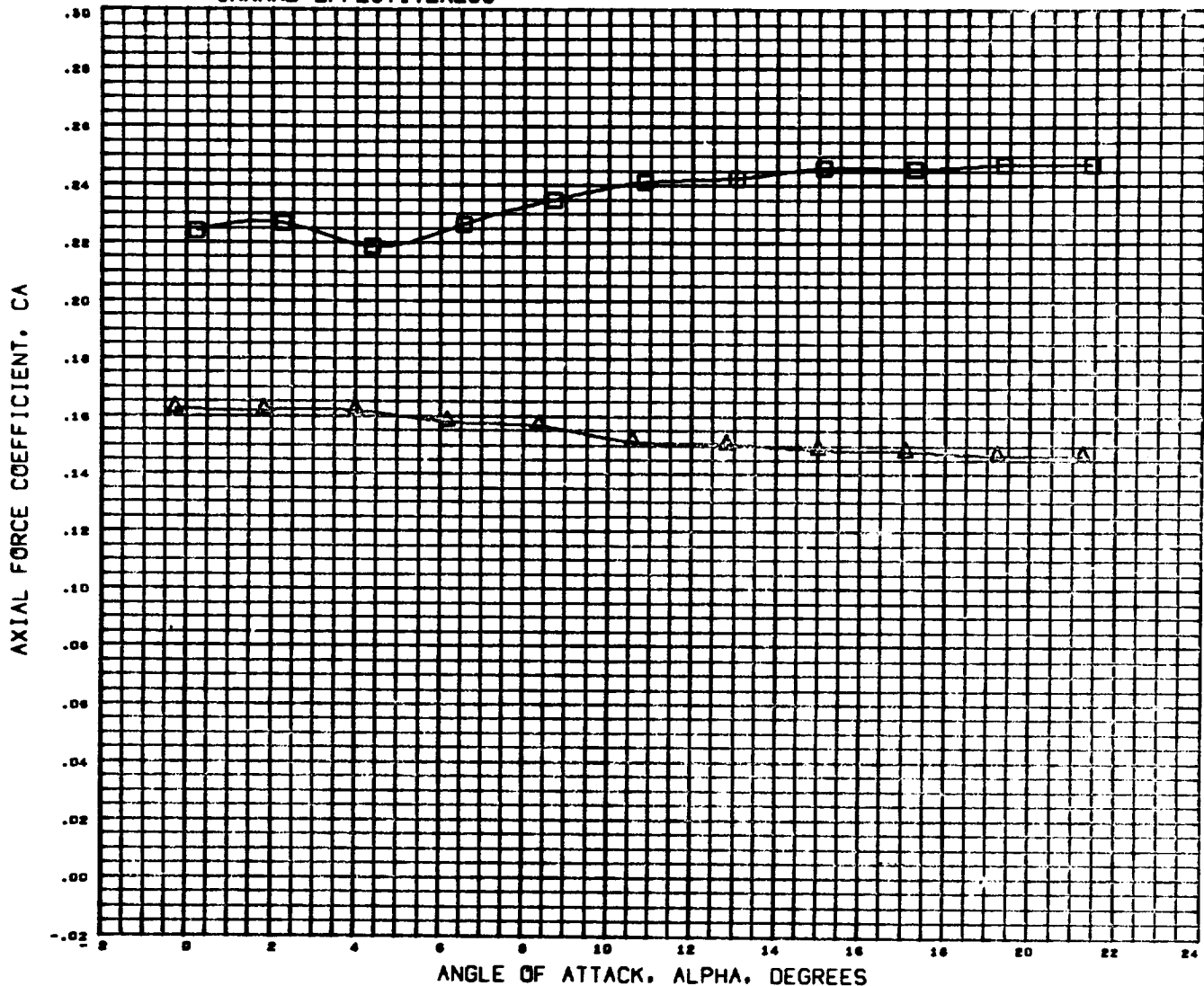
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 58. IN.
(E3400A)	M492-HSFC AR11901-1 MODEL BWMC1EVR	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-HSFC AR11901-1 MODEL BWMC1EVR	0.000	20.000	0.000	0.000	KNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.999

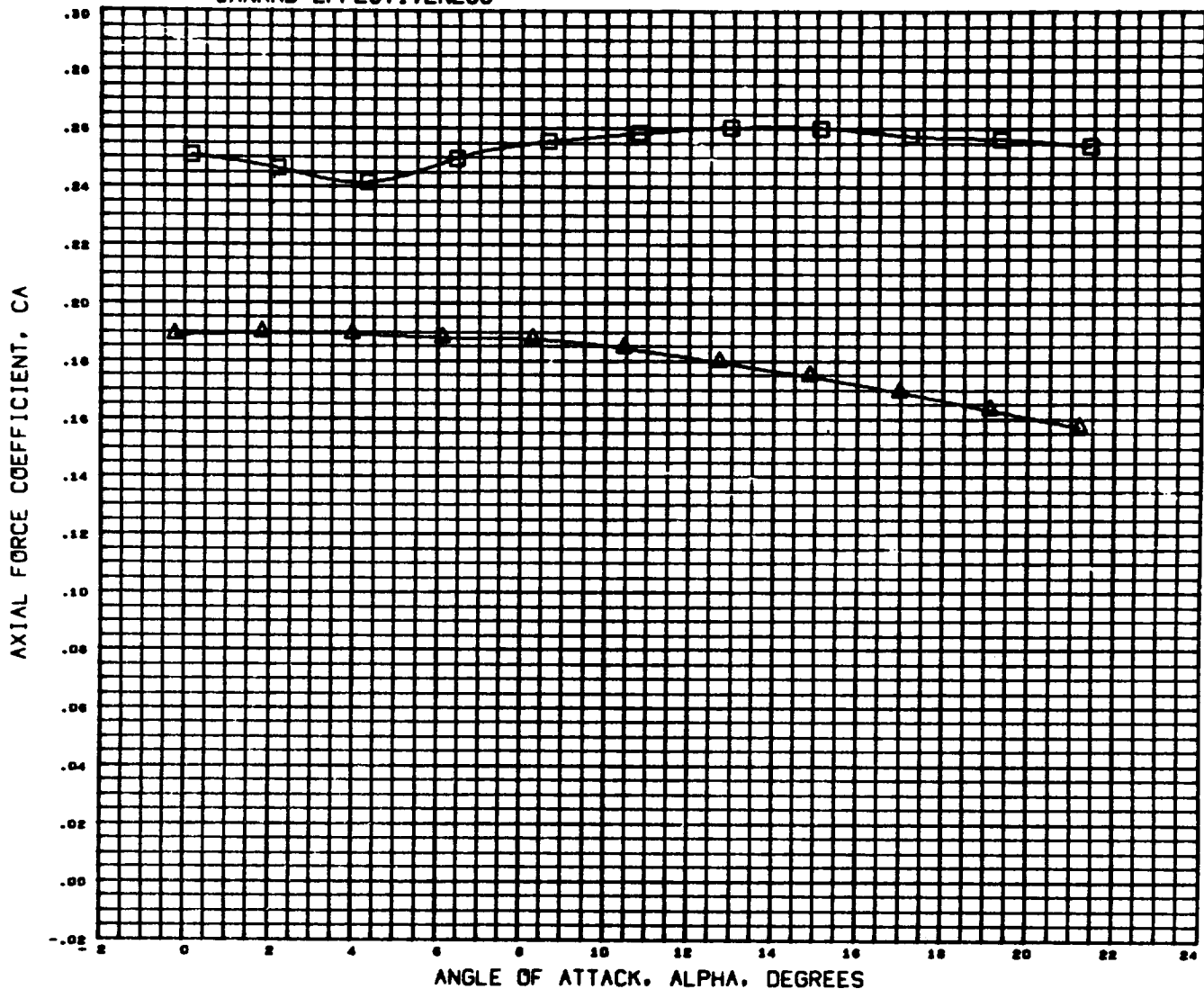
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 sq. in.
(E3409A)	N492-NSFC AR11901-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF	4.3000 in.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.3000 in.
(E3407A)	N492-NSFC AR11901-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 in.
						YMRP	0.0000 in.
						ZMRP	0.0000 in.
						SCALE	0.0025

MACH 1.004

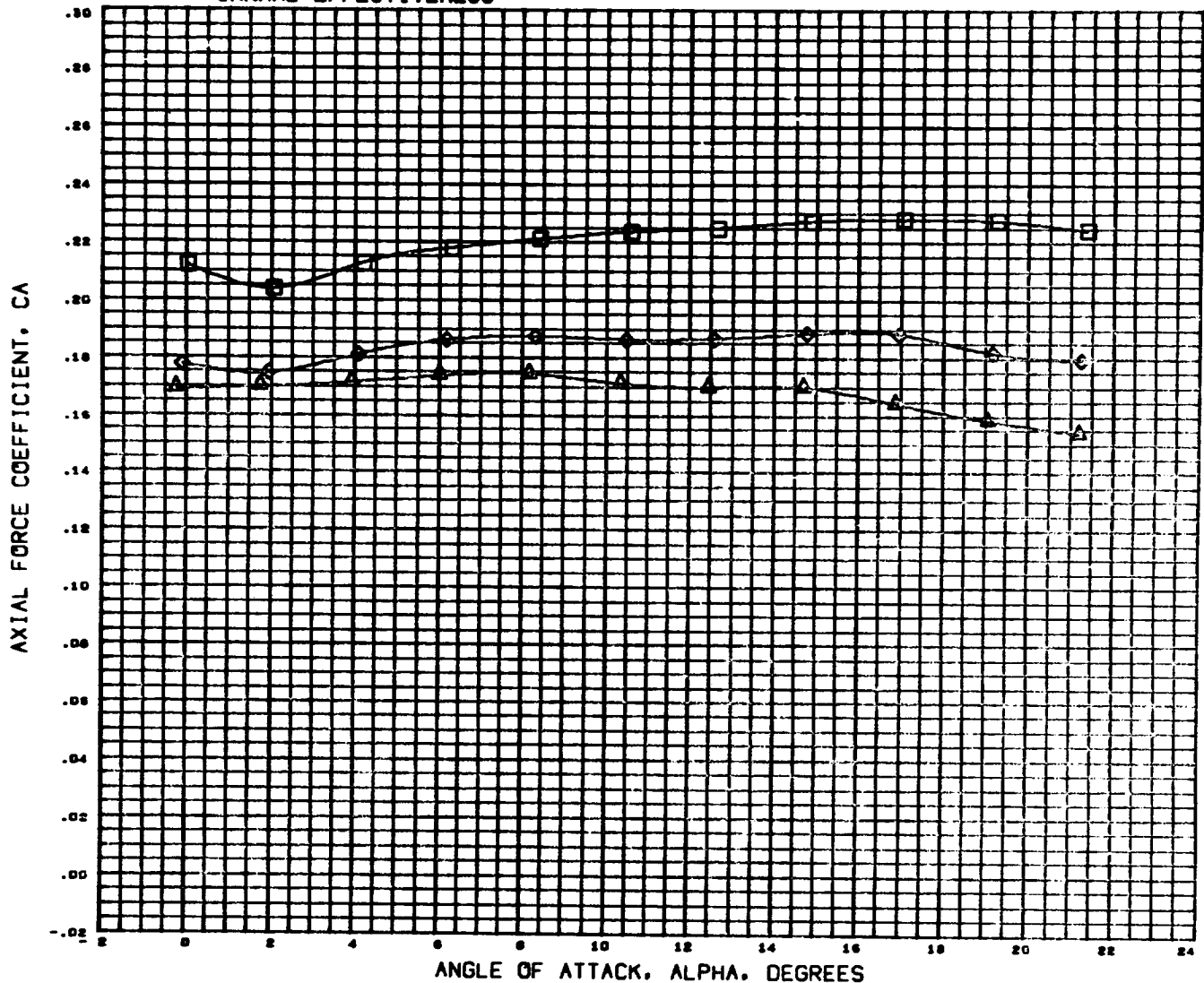
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 38.1N.
(E3405A)	M492-NSFC ARI1901-1 MODEL BZWCS2V2	0.000	0.000	0.000	0.000	LREF 4.3000 1N.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 1N.
(E3407A)	M492-NSFC ARI1901-1 MODEL BZWCS2V2	0.000	20.000	0.000	0.000	KNRP 2.4000 1N.
						YNRP 0.0000 1N.
						ZMRP 0.0000 1N.
						SCALE 0.0025

MACH 1.196

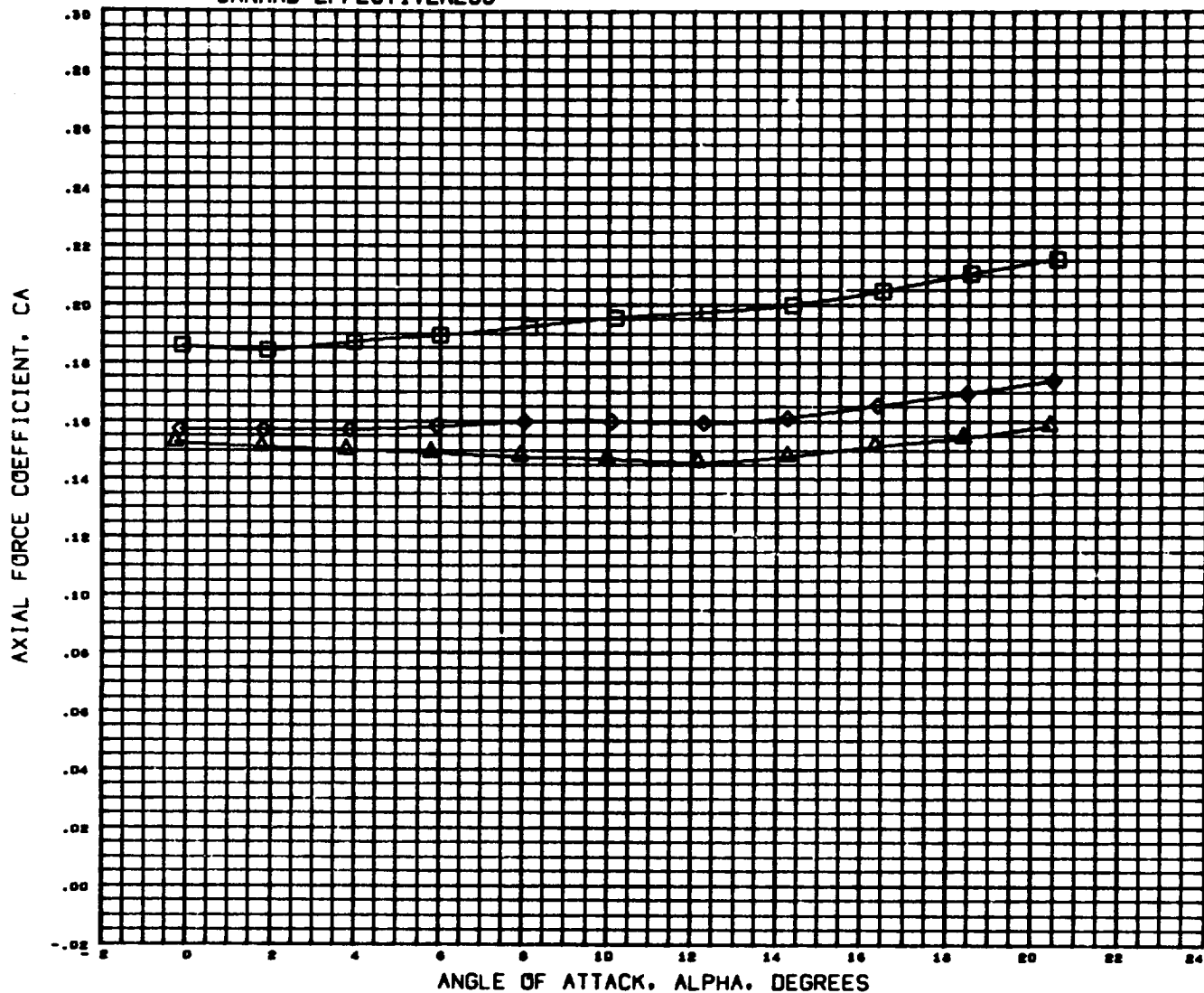
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3408B)	N492-MSFC AR11901-1 MODEL SZWGC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3408C)	N492-MSFC AR11901-1 MODEL SZWGC12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	N492-MSFC AR11901-1 MODEL SZWGC12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.944

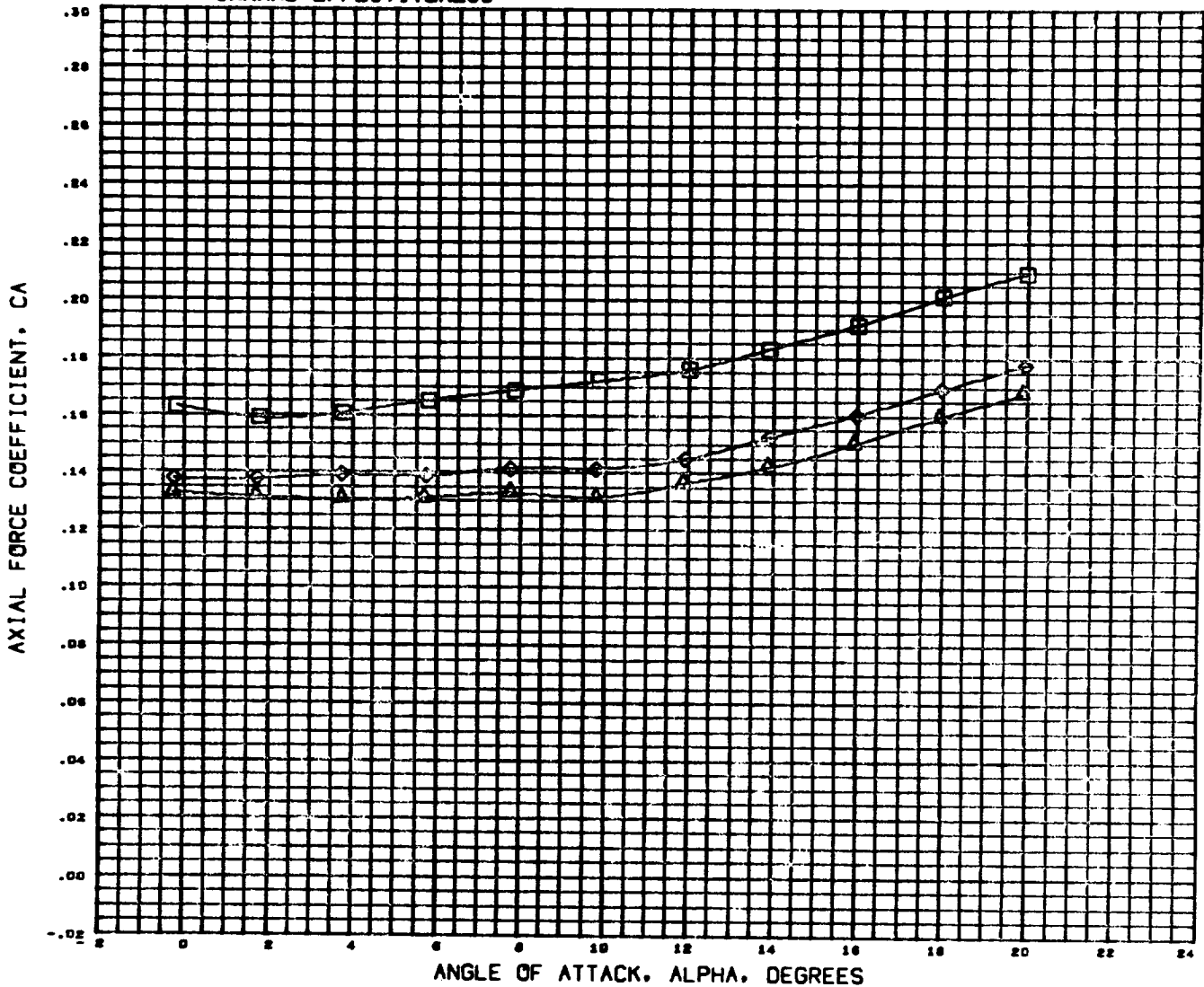
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 IN.
(E3405B)	△	N492-N5FC AR1190I-1 MODEL B2W5C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	◇	N492-N5FC AR1190I-1 MODEL B2W5C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	□	N492-N5FC AR1190I-1 MODEL B2W5C12V2	0.000	20.000	0.000	0.000	YMRP 2.4000 IN.
							YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 3.480

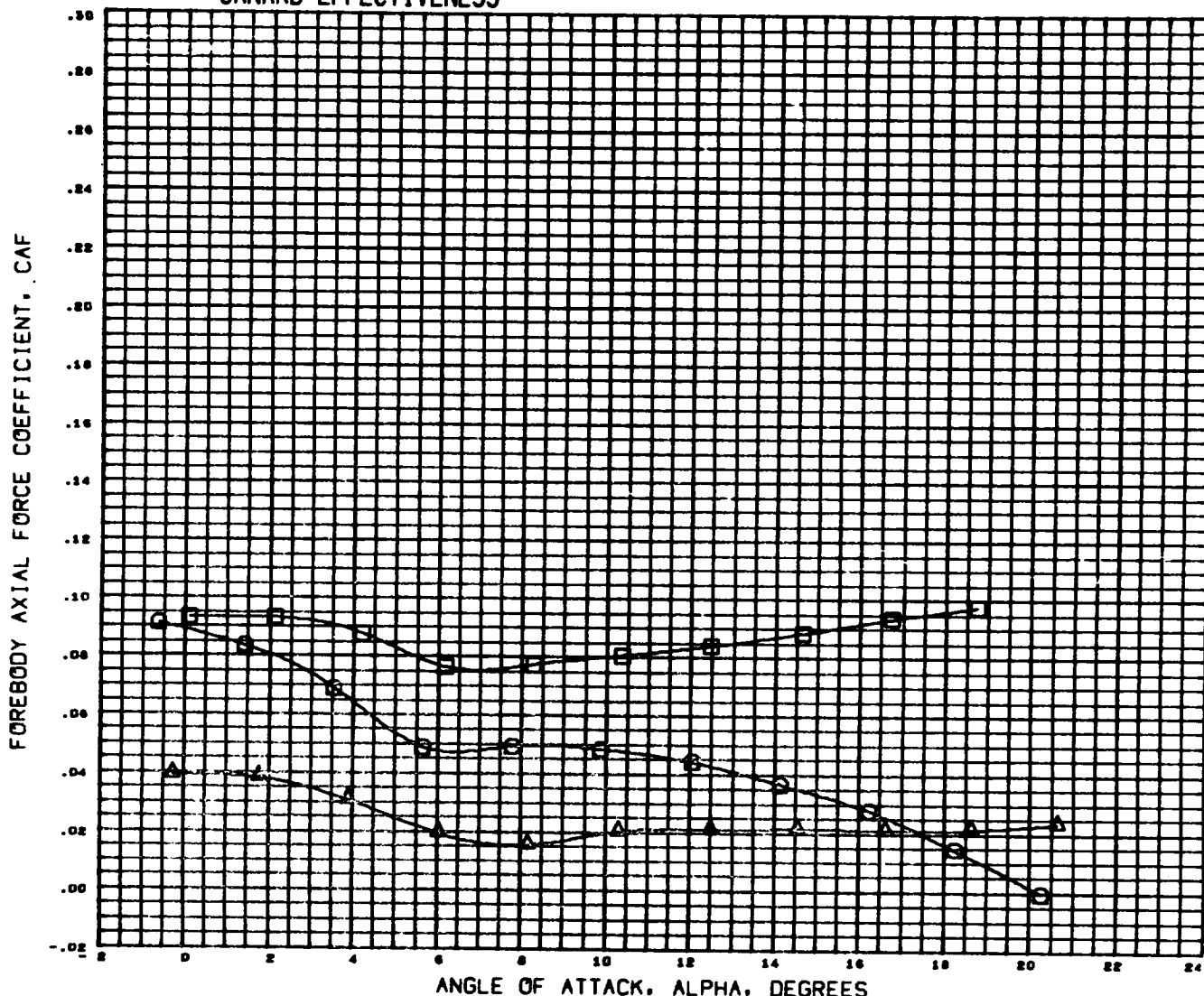
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3409A)	N492-NBFC AR11981-1 MODEL B2WNC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	N492-NBFC AR11981-1 MODEL B2WNC12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	N492-NBFC AR11981-1 MODEL B2WNC12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

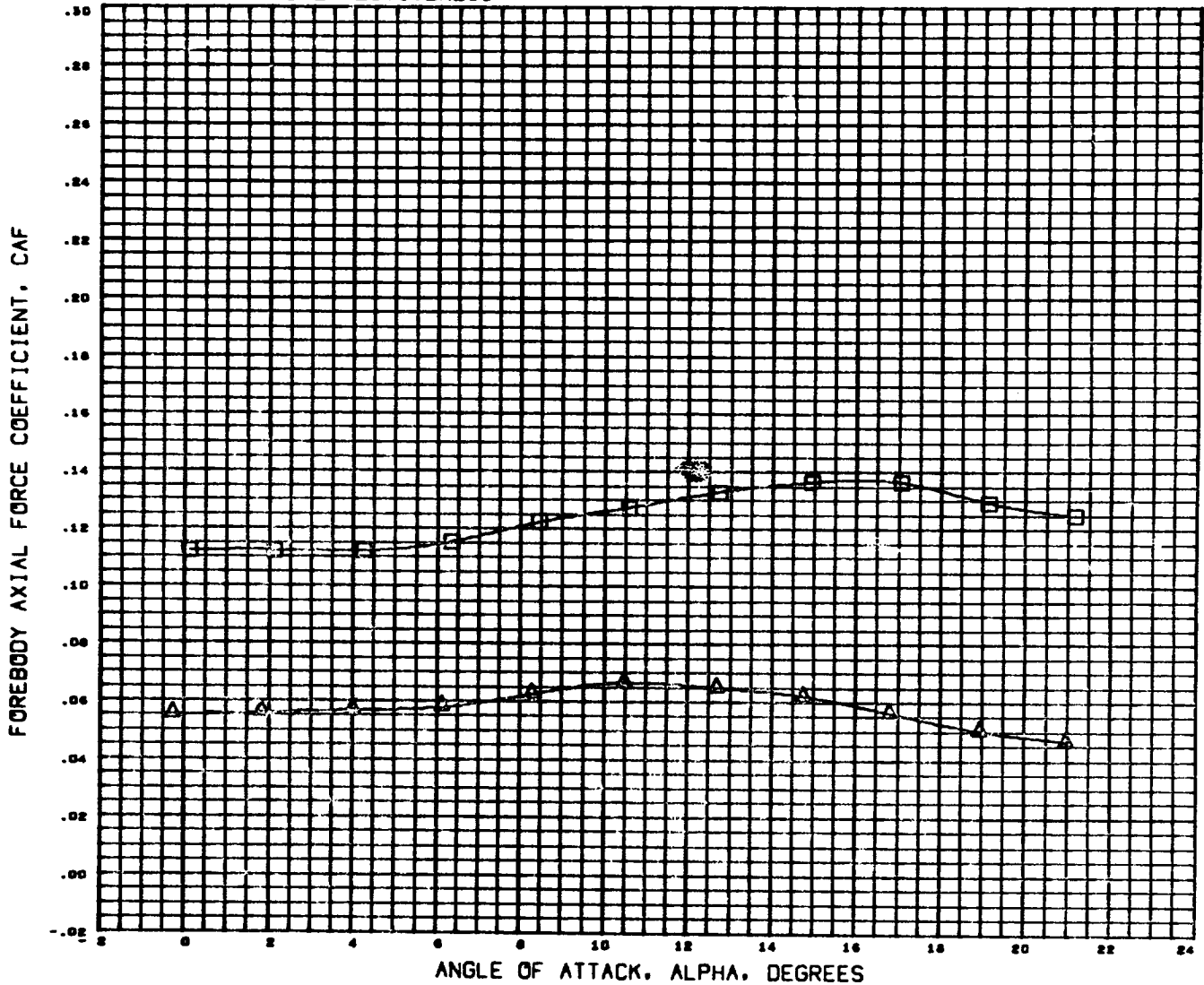
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	M492-M5FC AR11981-1 MODEL 82W6C12V2	0.000	-20.000	0.000	0.000	BREF 4.6225 30.IN.
(E3405A)	△	M492-M5FC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	◇	M492-M5FC AR11981-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
							YNRP 0.0000 IN.
							ZNRP 0.0000 IN.
							SCALE 0.0025

MACH 0.597

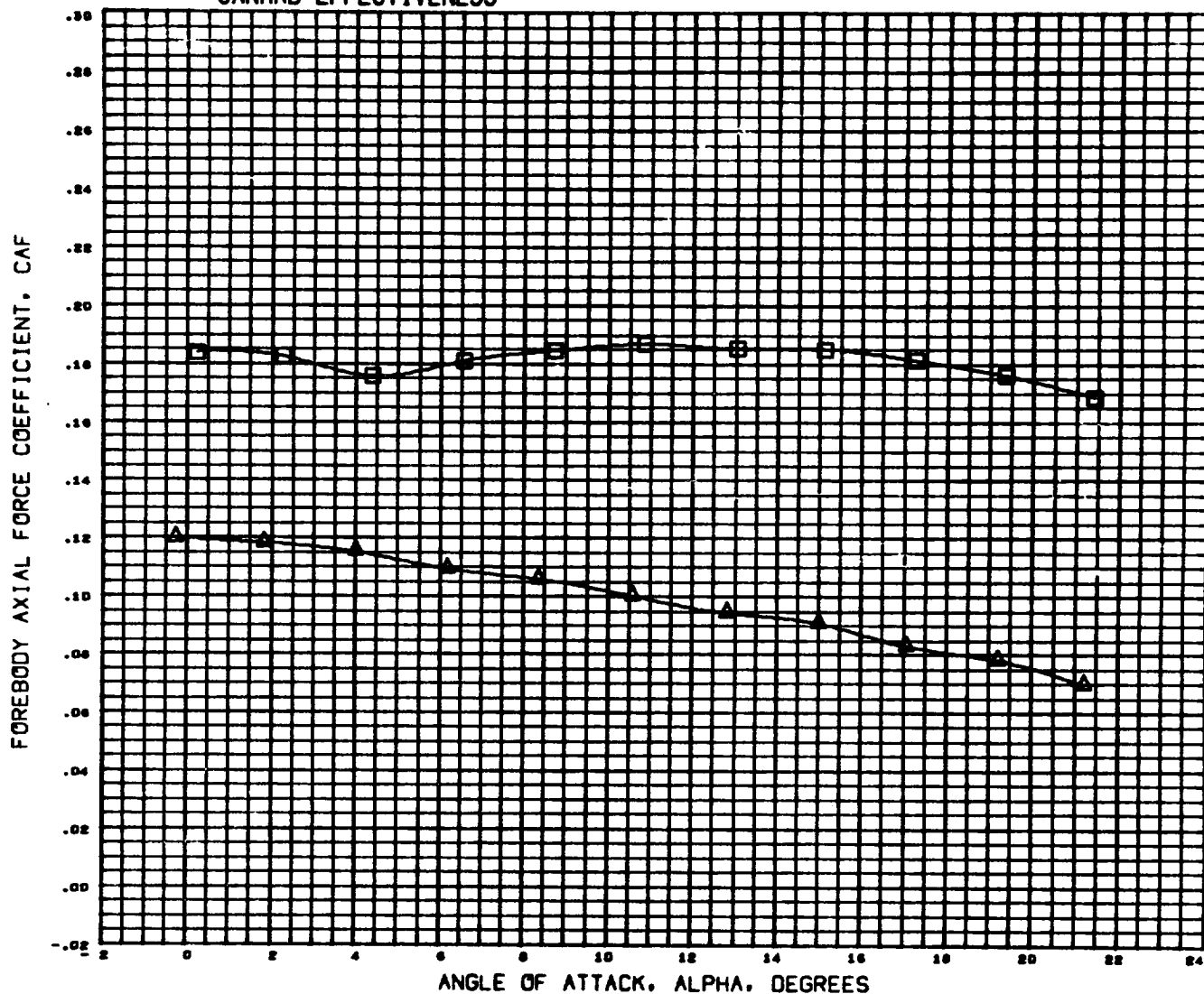
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 30.IN.
(E3405A)	M492-MSFC AR11901-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-MSFC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.899

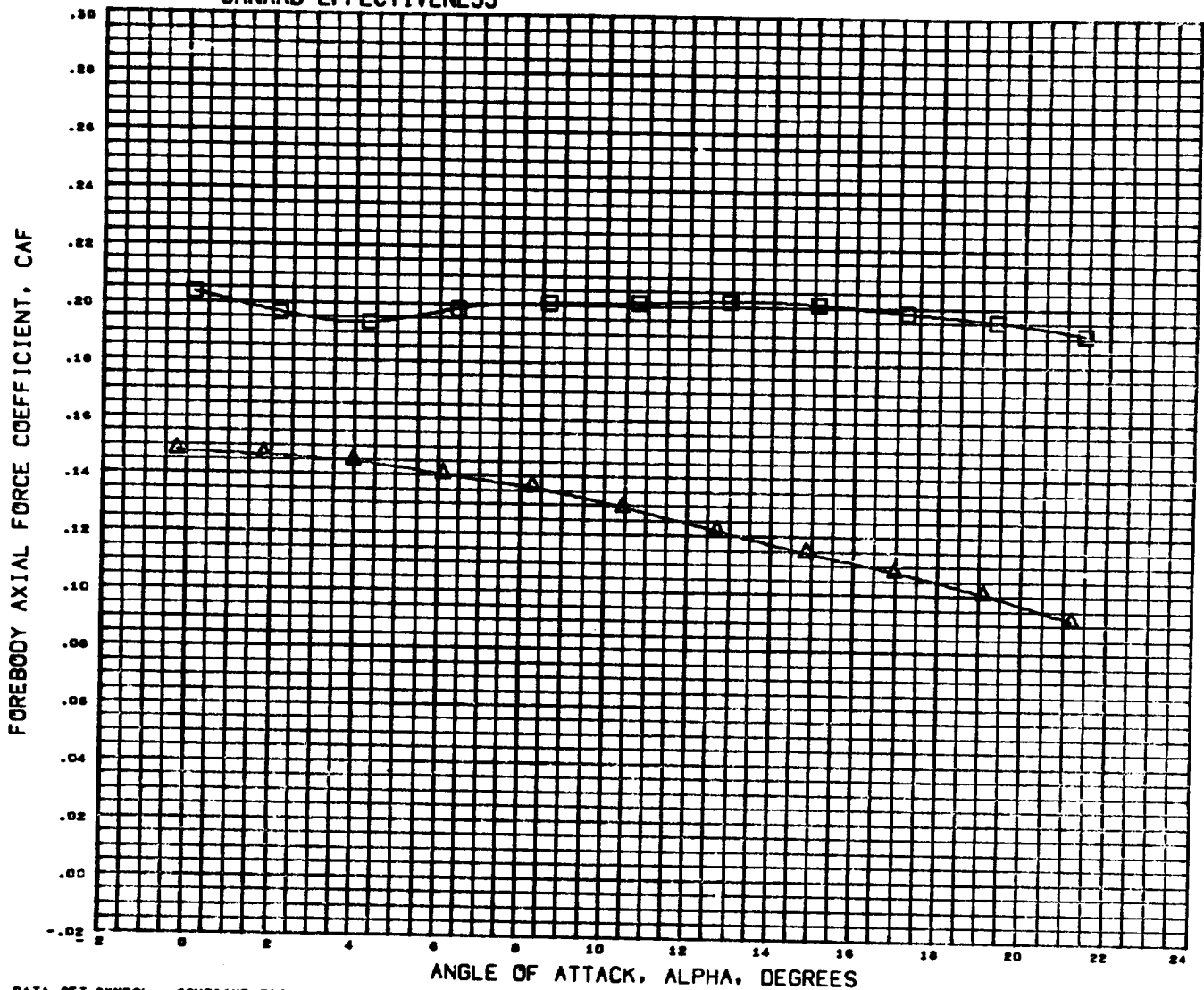
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SRF 4.6225 50.IN.
(E3409A)	△	M49Z-HSFC AR11981-1 MODEL BEM6C12V2	0.000	0.000	0.000	0.000	LRF 4.3000 IN.
(E3406A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	SRF 4.3000 IN.
(E3407A)	□	M49Z-HSFC AR11981-1 MODEL BEM6C12V2	0.000	20.000	0.000	0.000	XRFP 2.4000 IN.
							YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 1.004

CANARD EFFECTIVENESS



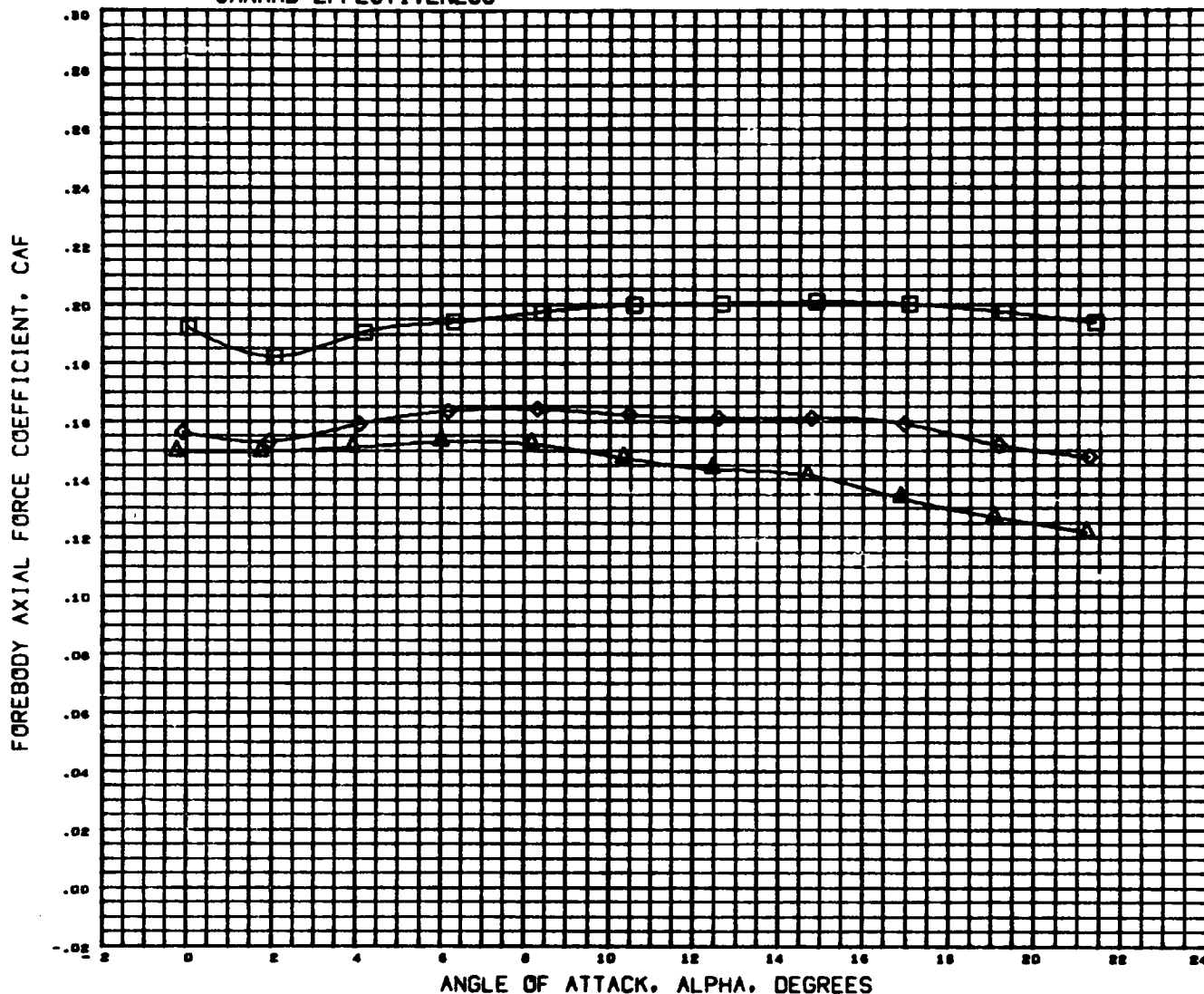
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3409A) M492-MSFC AR1199I-1 MODEL 82W6C12V2
 (E3406A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) M492-MSFC AR1196I-1 MODEL 82W6C12V2

BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	-20.000	0.000	0.000	SREF 4.6225 84 IN.
0.000	0.000	0.000	0.000	LREF 4.3000 IN.
0.000	10.000	0.000	0.000	BREF 4.3000 IN.
0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
				YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

NACH 1.196

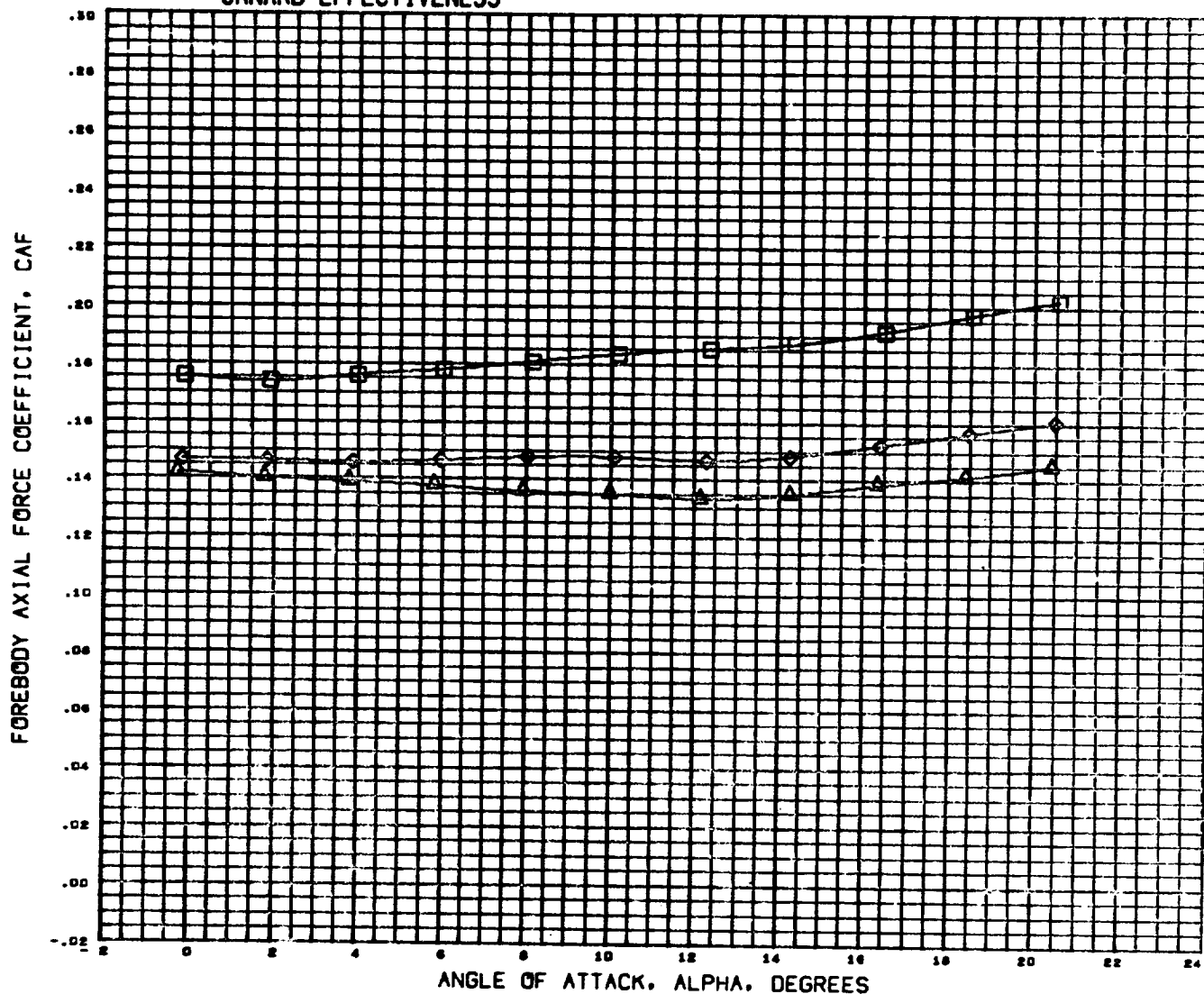
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 80.IN.
(E3405A)	N492-NSFC AR11981-1 MODEL 82W0C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	N492-NSFC AR11981-1 MODEL 82W0C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	N492-NSFC AR11981-1 MODEL 82W0C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

NACH 1.044

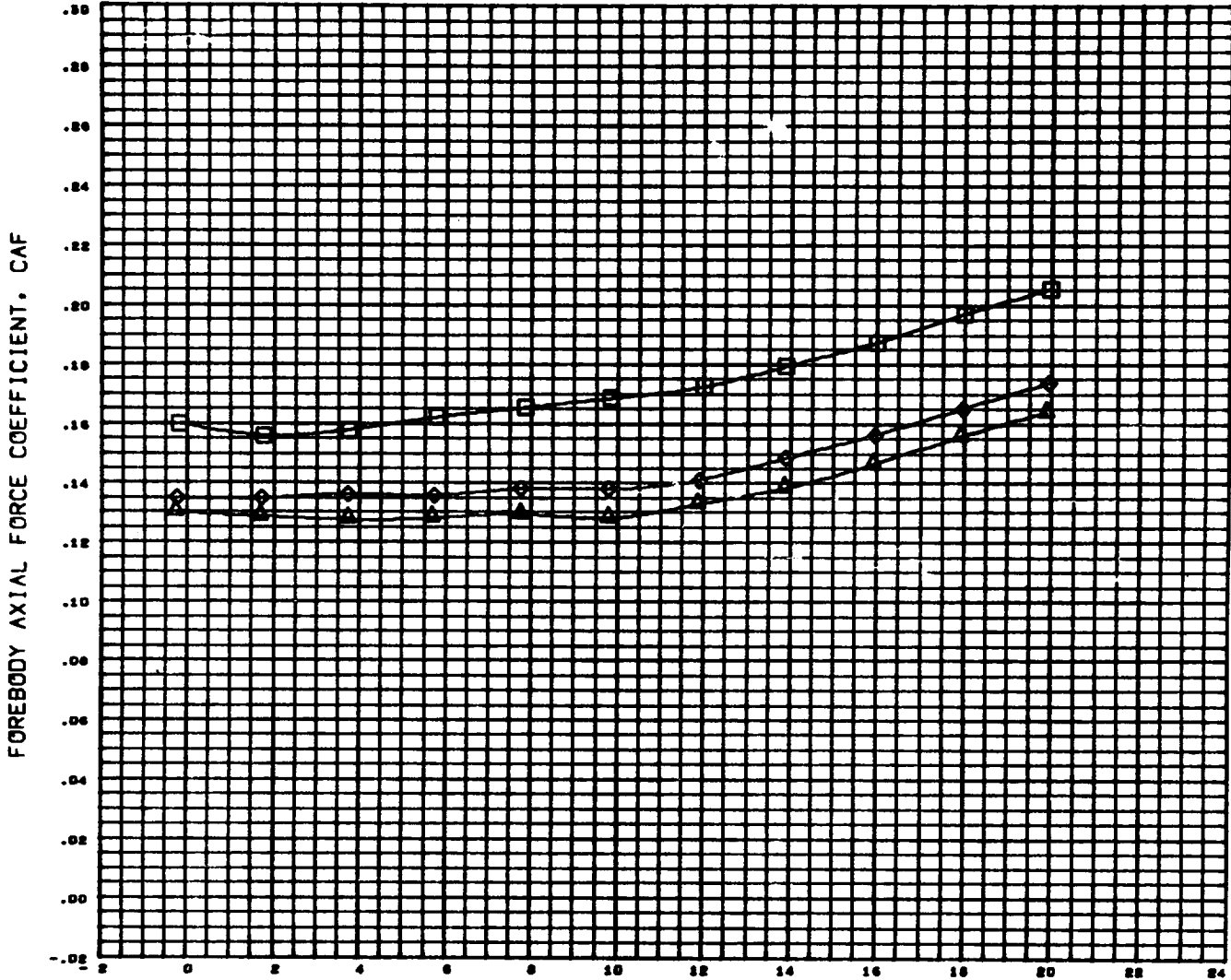
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3405A)	M492-MSFC AR11901-1 MODEL 82WSC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	M492-MSFC AR11901-1 MODEL 82WSC12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-MSFC AR11901-1 MODEL 82WSC12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 3.400

CANARD EFFECTIVENESS

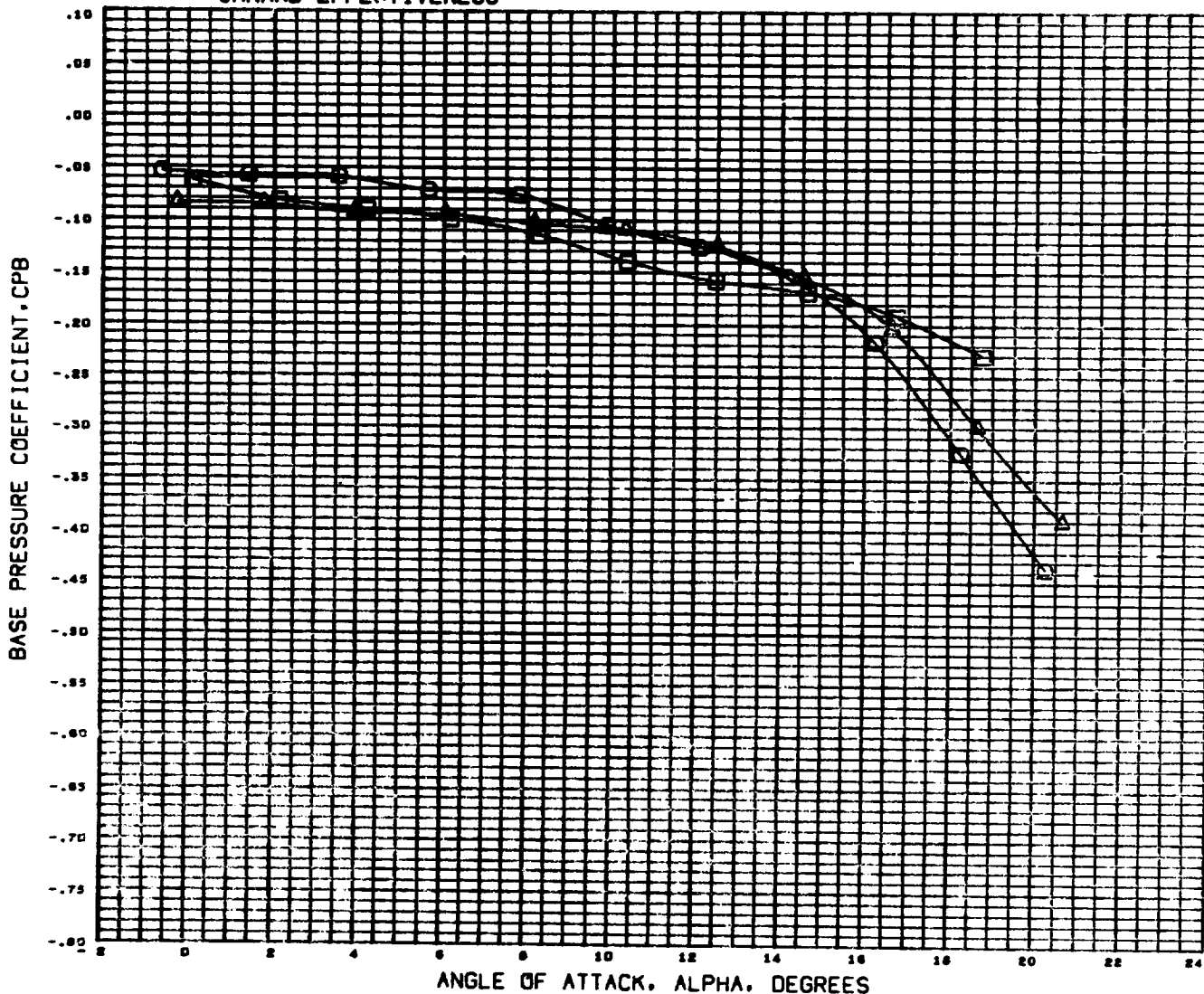


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF	4.6225 80 IN.
(E3406B)	M492-NSFC AR11981-1 MODEL BEMSC12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406C)	M492-NSFC AR11981-1 MODEL BEMSC12V2	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	M492-NSFC AR11981-1 MODEL BEMSC12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 4.959

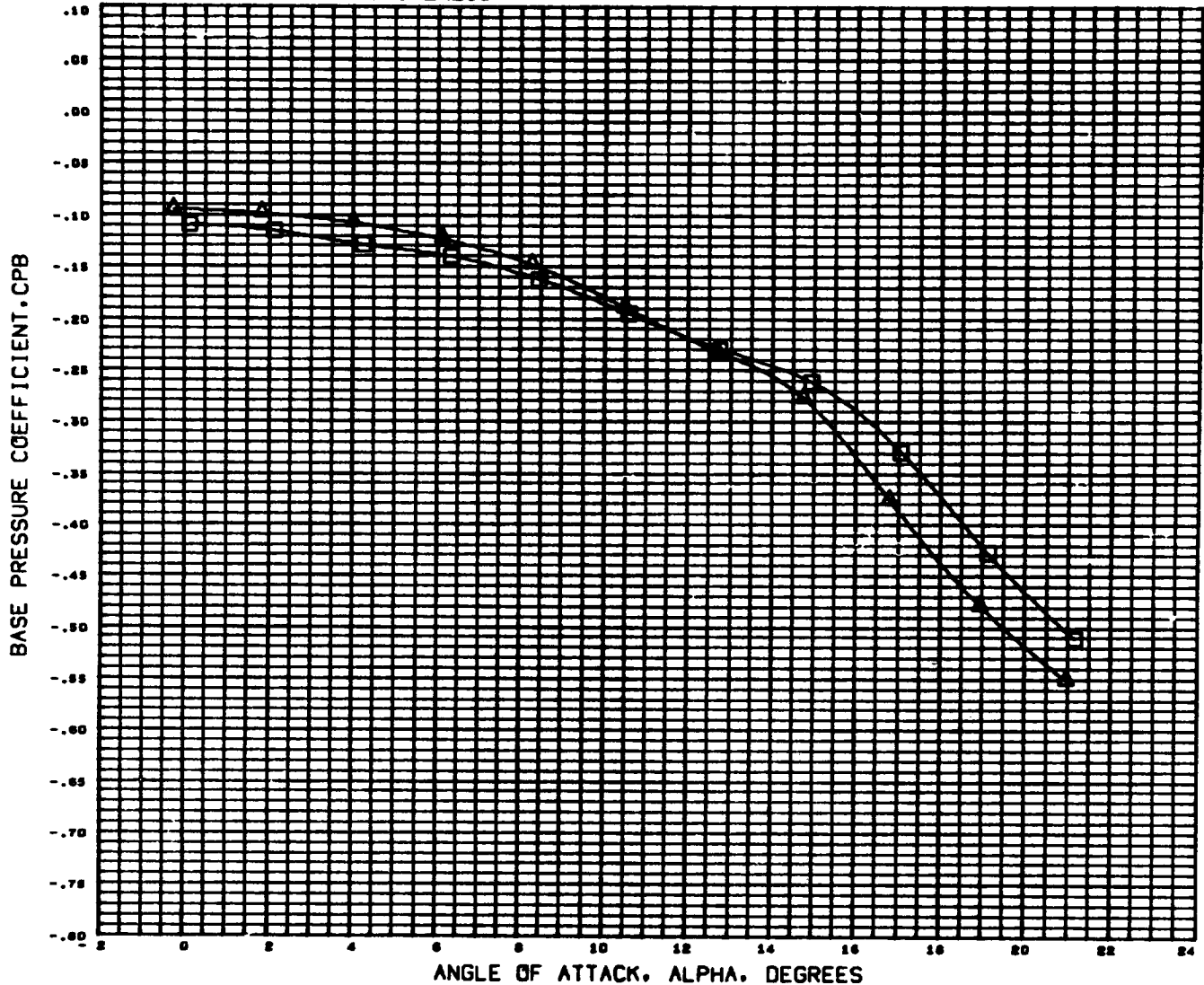
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	N492-HSFC AR11991-1 MODEL B2W6C12VZ	0.000	-20.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3409A)	□	N492-HSFC AR11991-1 MODEL B2W6C12VZ	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	◇	N492-HSFC AR11991-1 MODEL B2W6C12VZ	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
							YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 0.997

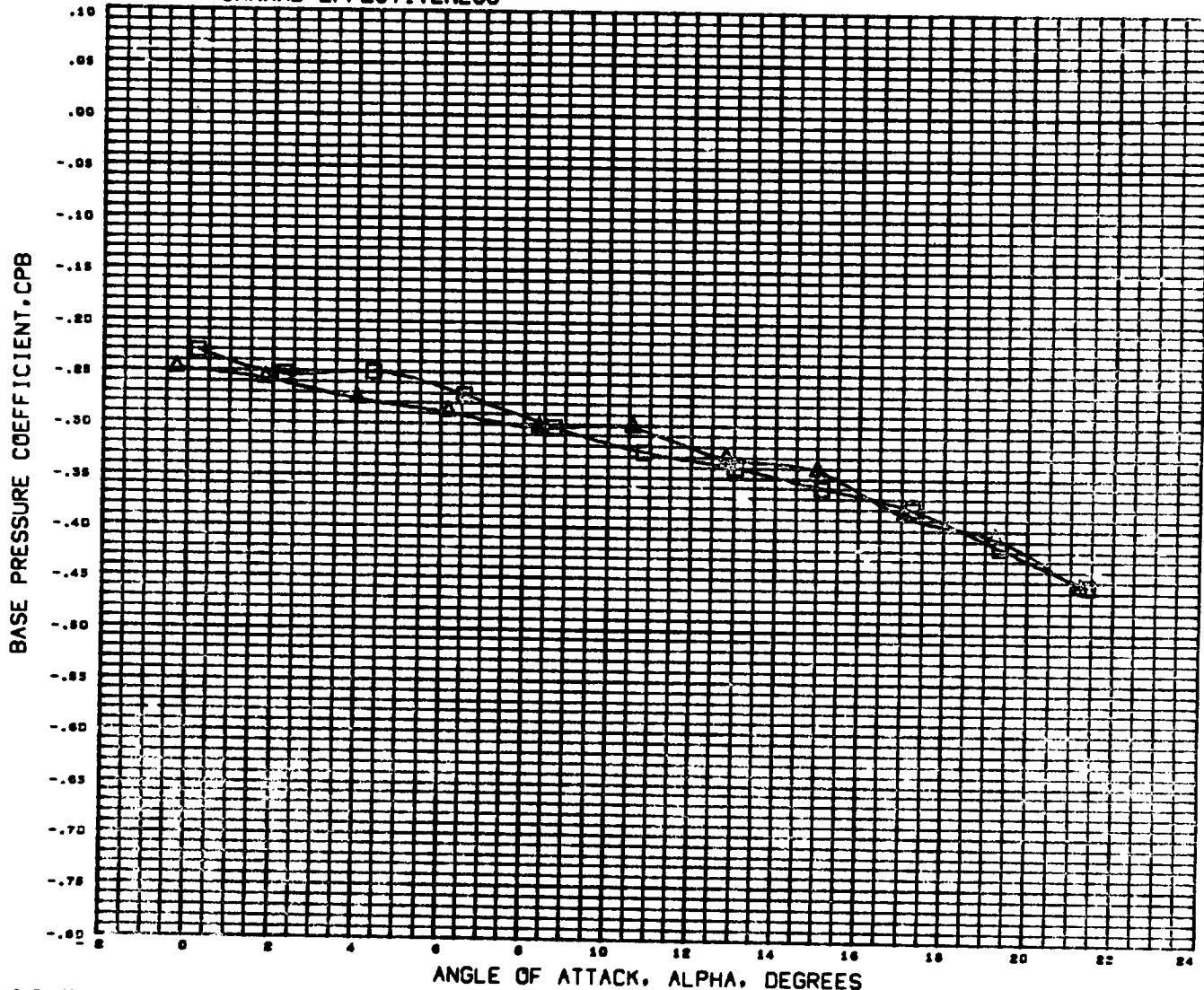
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6223 36 IN.
(E3409A)	M492-NSFC AR11001-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF	4.5000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.5000 IN.
(E3407A)	M492-NSFC AR11001-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	TMRP	2.4000 IN.
						TMRP	0.0000 IN.
						TMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.099

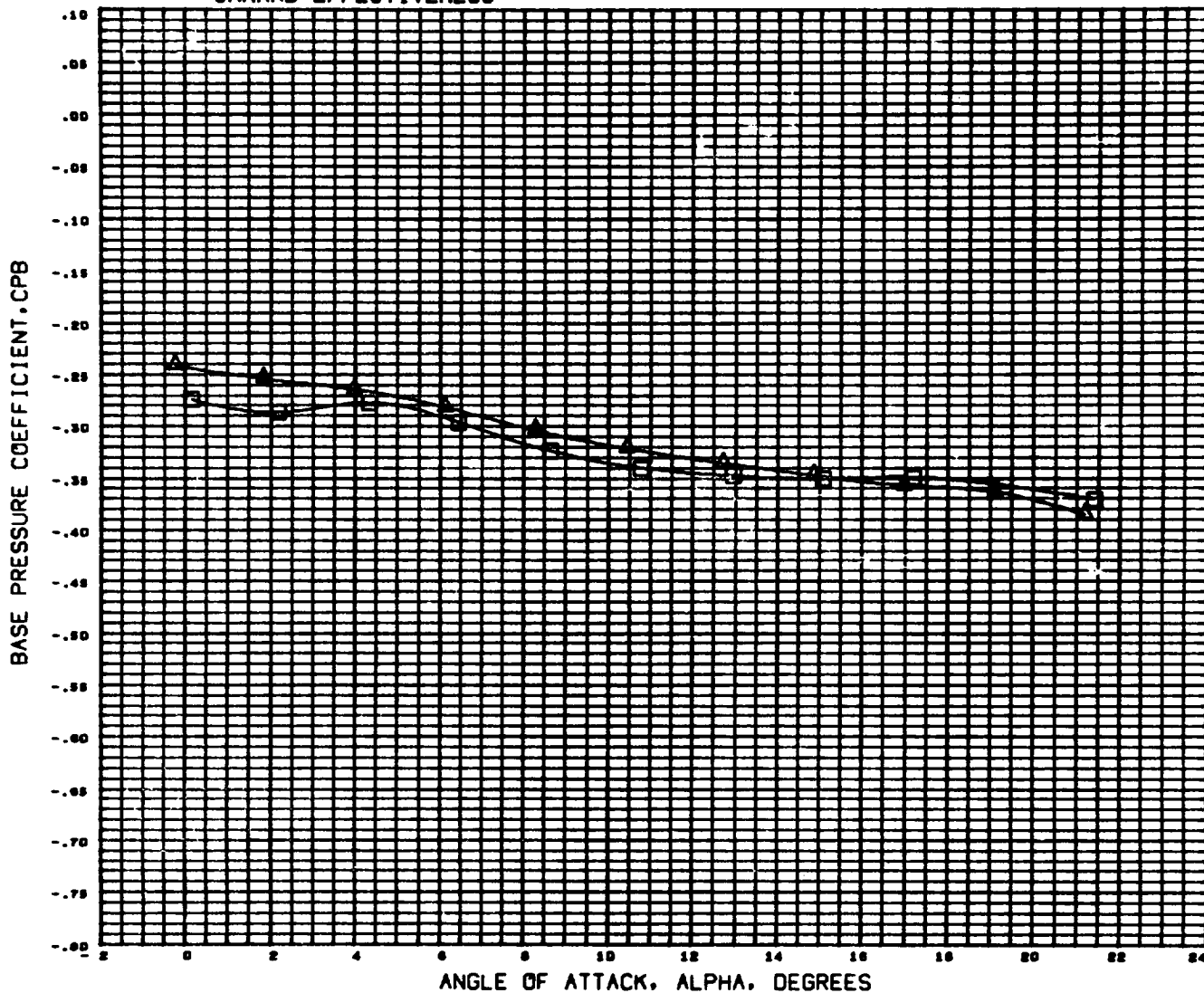
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 50.IN.
(E3405A)	△	M492-HSFC AR15901-1 MODEL 82W6C12V8	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	□	M492-HSFC AR15901-1 MODEL 82W6C12V8	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
							YNRP 0.0000 IN.
							ZNRP 0.0000 IN.
							SCALE 0.0025

MACH 1.004

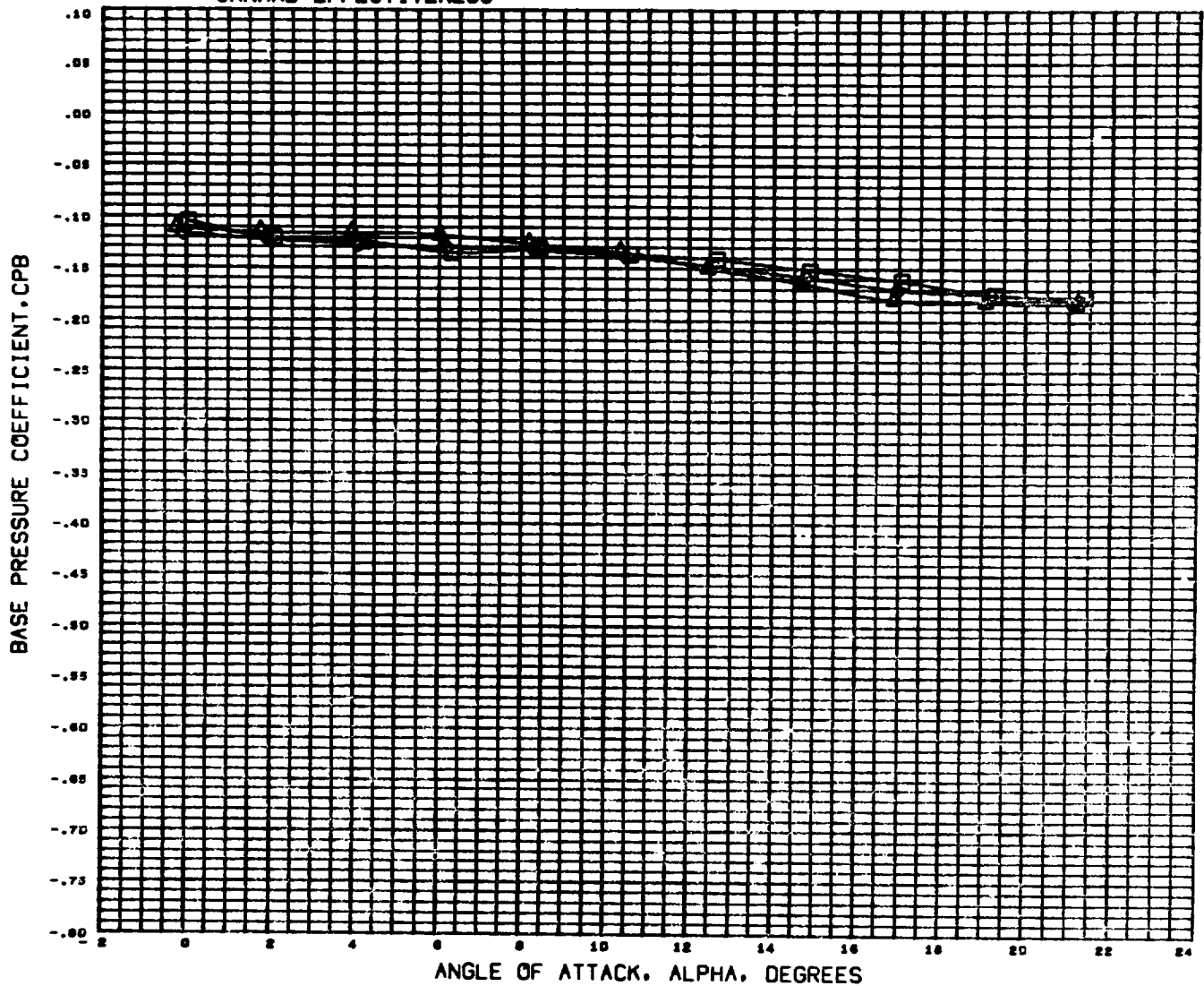
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF	4.0225 56. IN.
(E3409A)	M492-MSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	M492-MSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	ZHRP	2.4000 IN.
						YHRP	0.0000 IN.
						ZHRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

CANARD EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

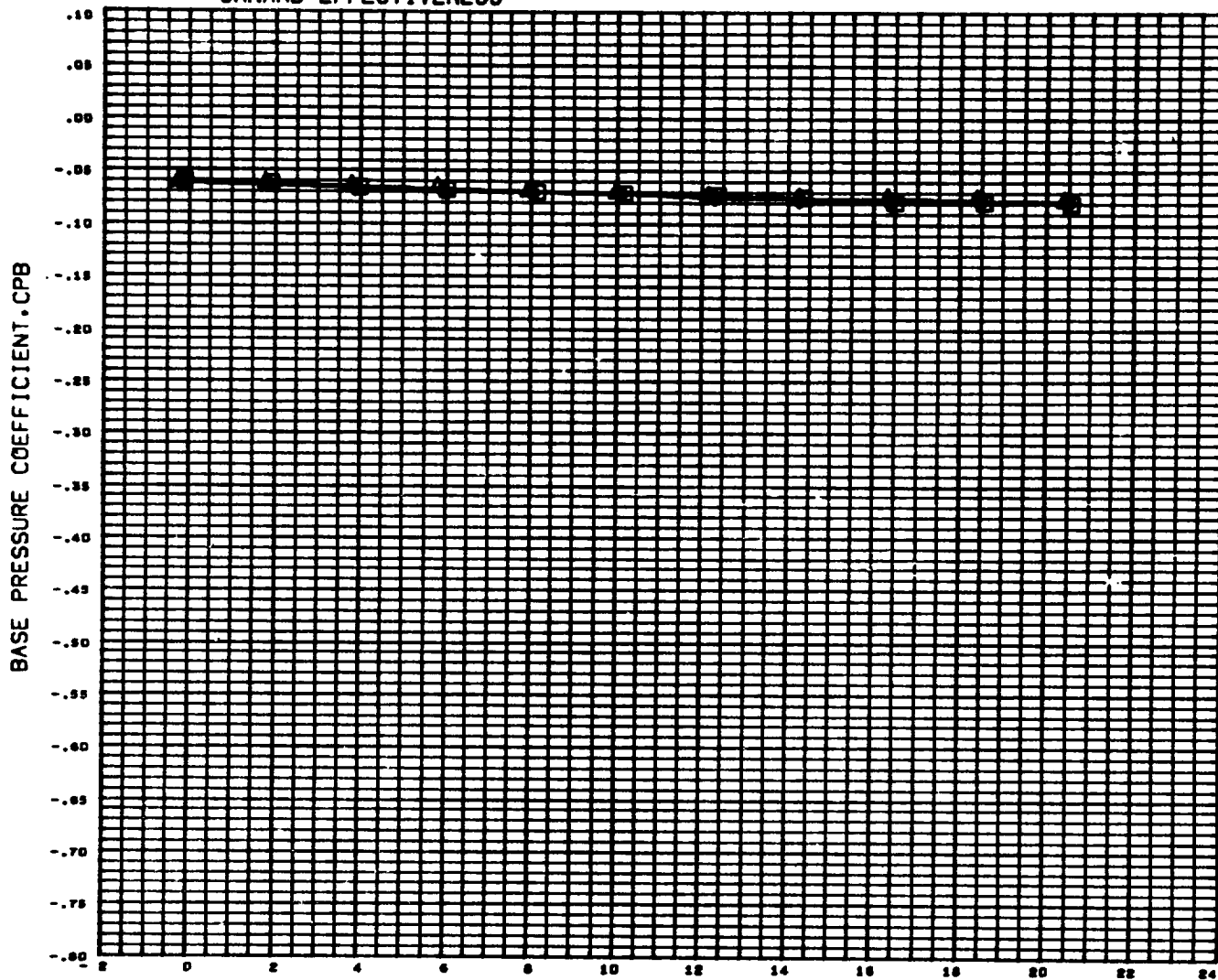
(E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3409A) N492-NBFC AR11981-1 MODEL B2W6C12V2
 (E3406A) N492-NBFC AR11981-1 MODEL B2W6C12V2
 (E3407A) N492-NBFC AR11981-1 MODEL B2W6C12V2

BETA CANARD ELEVTR AILRON
 0.000 -20.000 0.000 0.000
 0.000 0.000 0.000 0.000
 0.000 10.000 0.000 0.000
 0.000 20.000 0.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.044

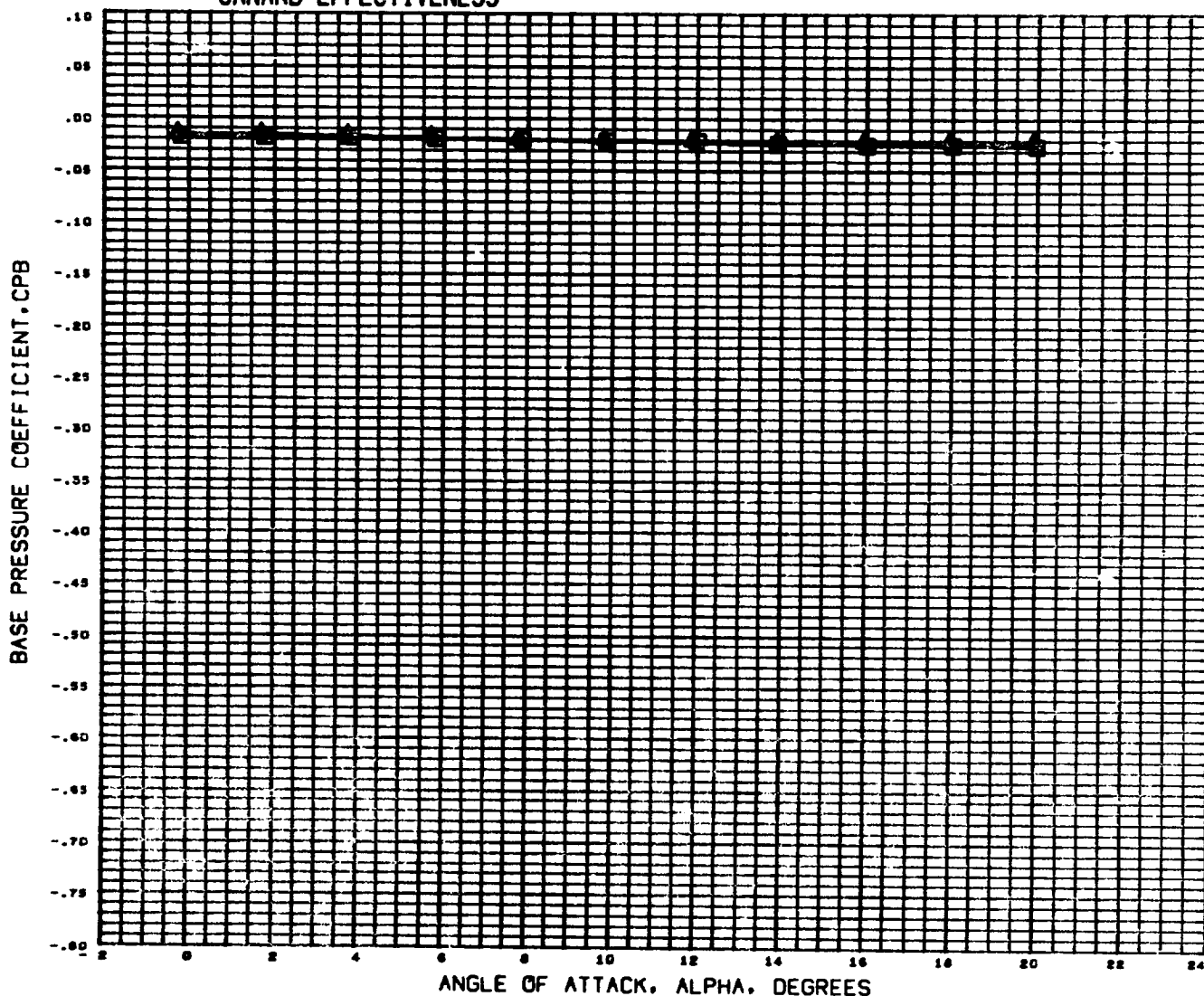
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 90 IN.
(E3409A)	M492-MSFC AR11901-1 MODEL S2WMC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	M492-MSFC AR11901-1 MODEL S2WMC12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-MSFC AR11901-1 MODEL S2WMC12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

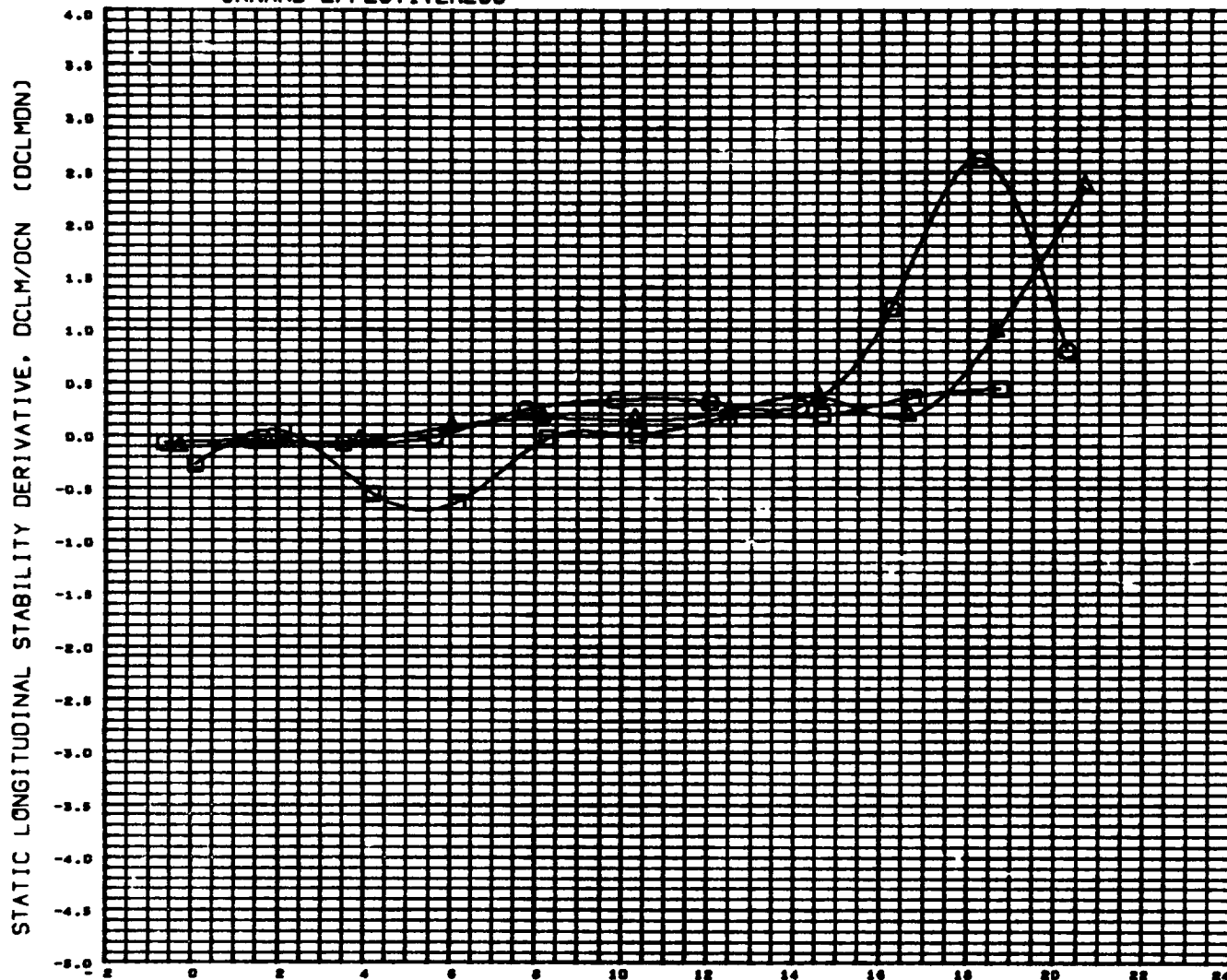
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 sq.in.
(E3405A)	M492-NBFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	M492-NBFC AR11981-1 MODEL B2W6C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-NBFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

CANARD EFFECTIVENESS

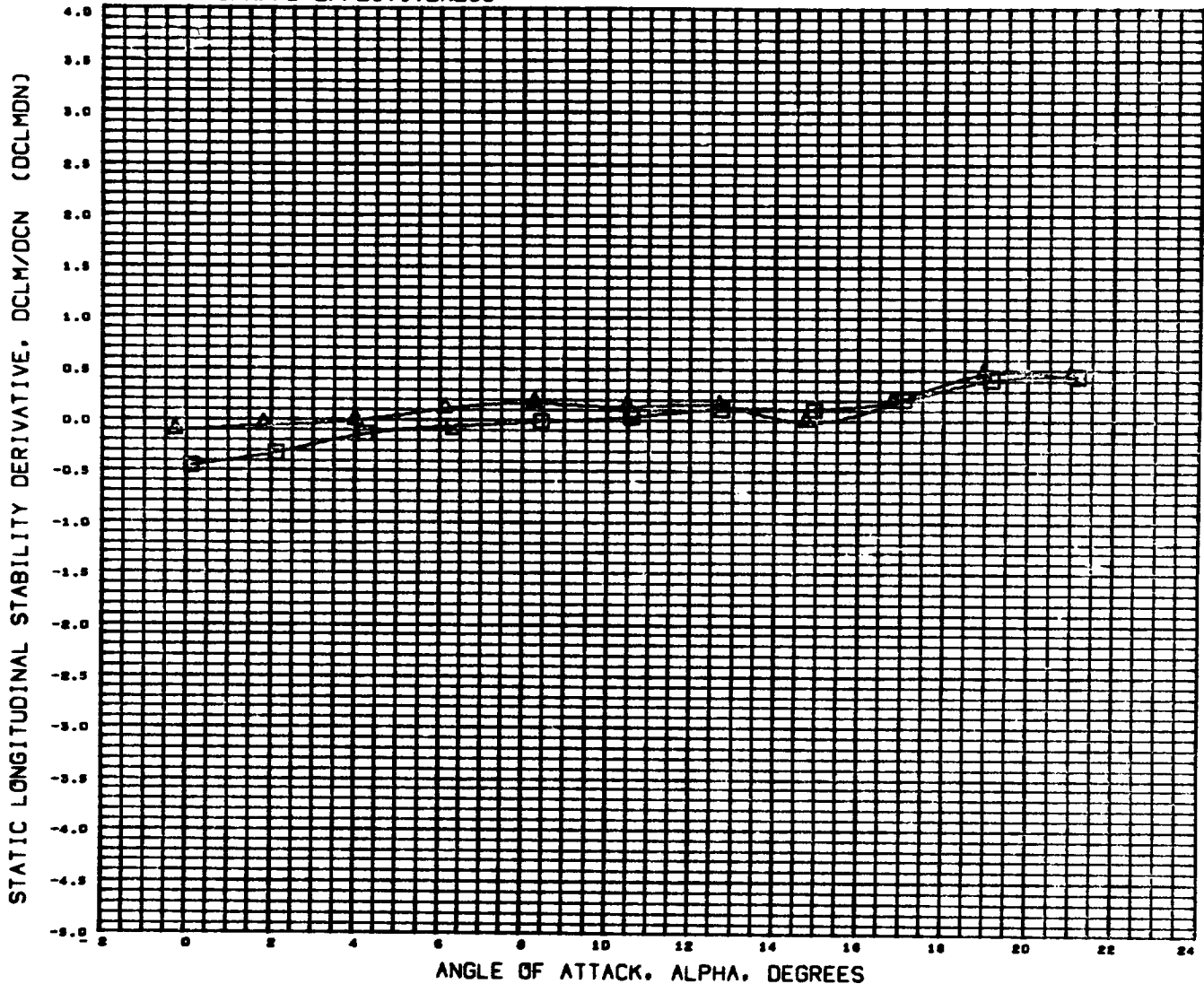


ANGLE OF ATTACK, ALPHA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3406A)	M492-NBFC AR11991-1 MODEL 82W6C12V2	0.000	-20.000	0.000	0.000	REF 4.6228 80 IN.
(E3406A)	M492-NBFC AR11991-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	REF 4.3000 IN.
(E3407A)	M492-NBFC AR11991-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

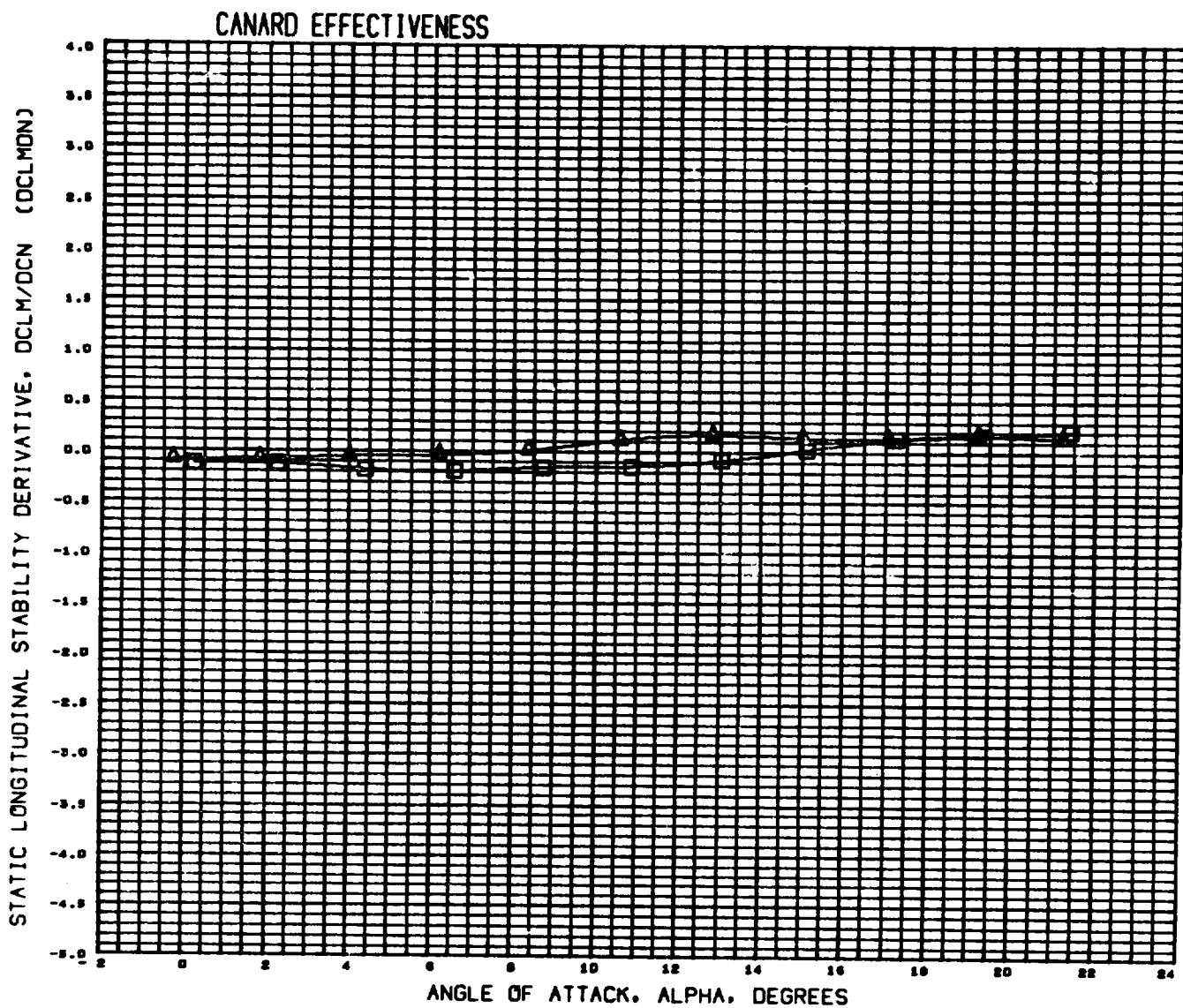
MACH 0.997

CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3406A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 36 IN.
(E3406A)	○	M492-NSFC AR11991-1 MODEL SEMC12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	SREF 4.3000 IN.
(E3407A)	□	M492-NSFC AR11991-1 MODEL SEMC12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
							YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

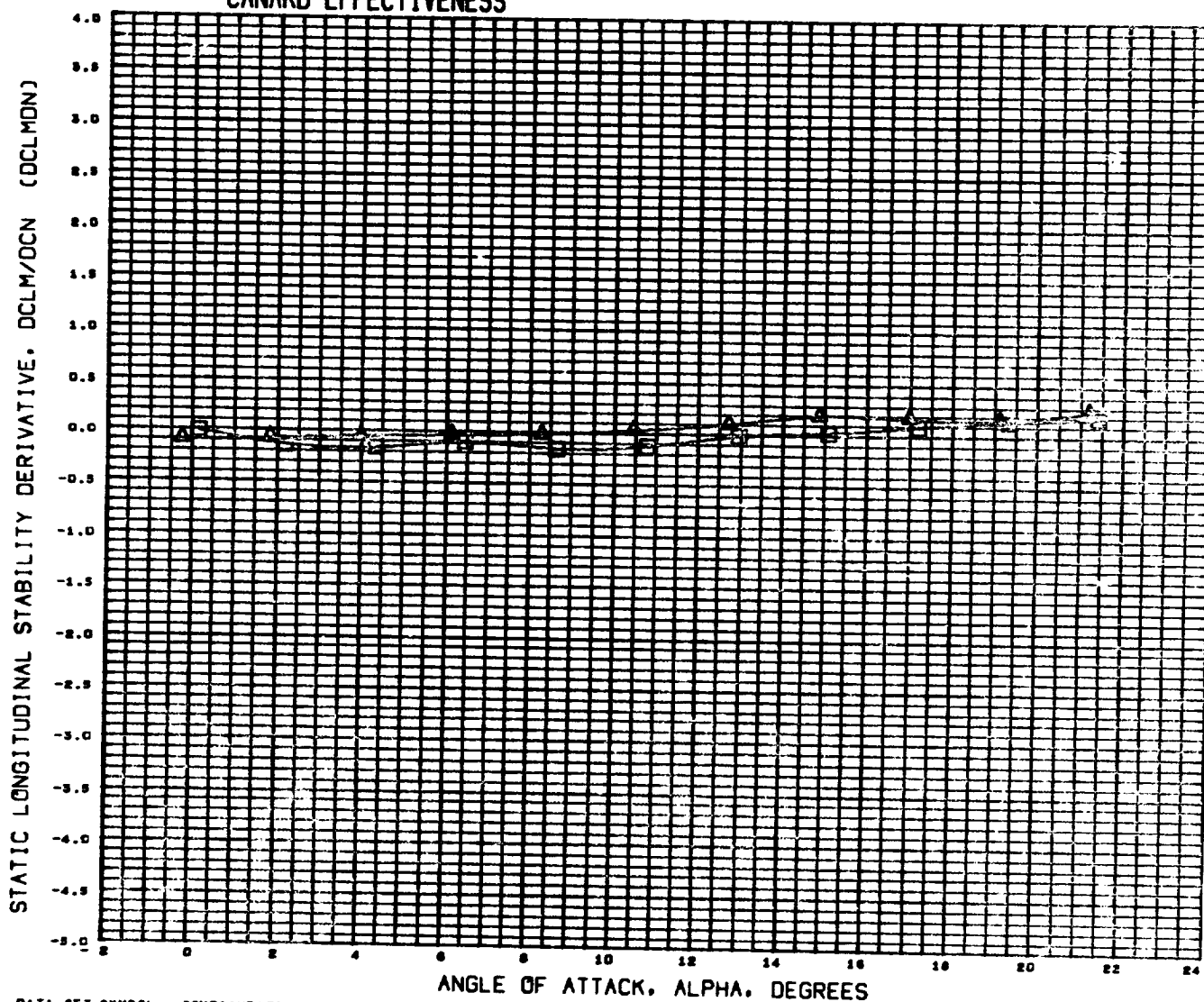
MACH 0.899



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 sq.in.
(E3409A)	△	M492-MSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 in.
(E3406A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 in.
(E3407A)	◇	M492-MSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 in.
							YMRP 0.0000 in.
							ZMRP 0.0000 in.
							SCALE 0.0025

MACH 1.004

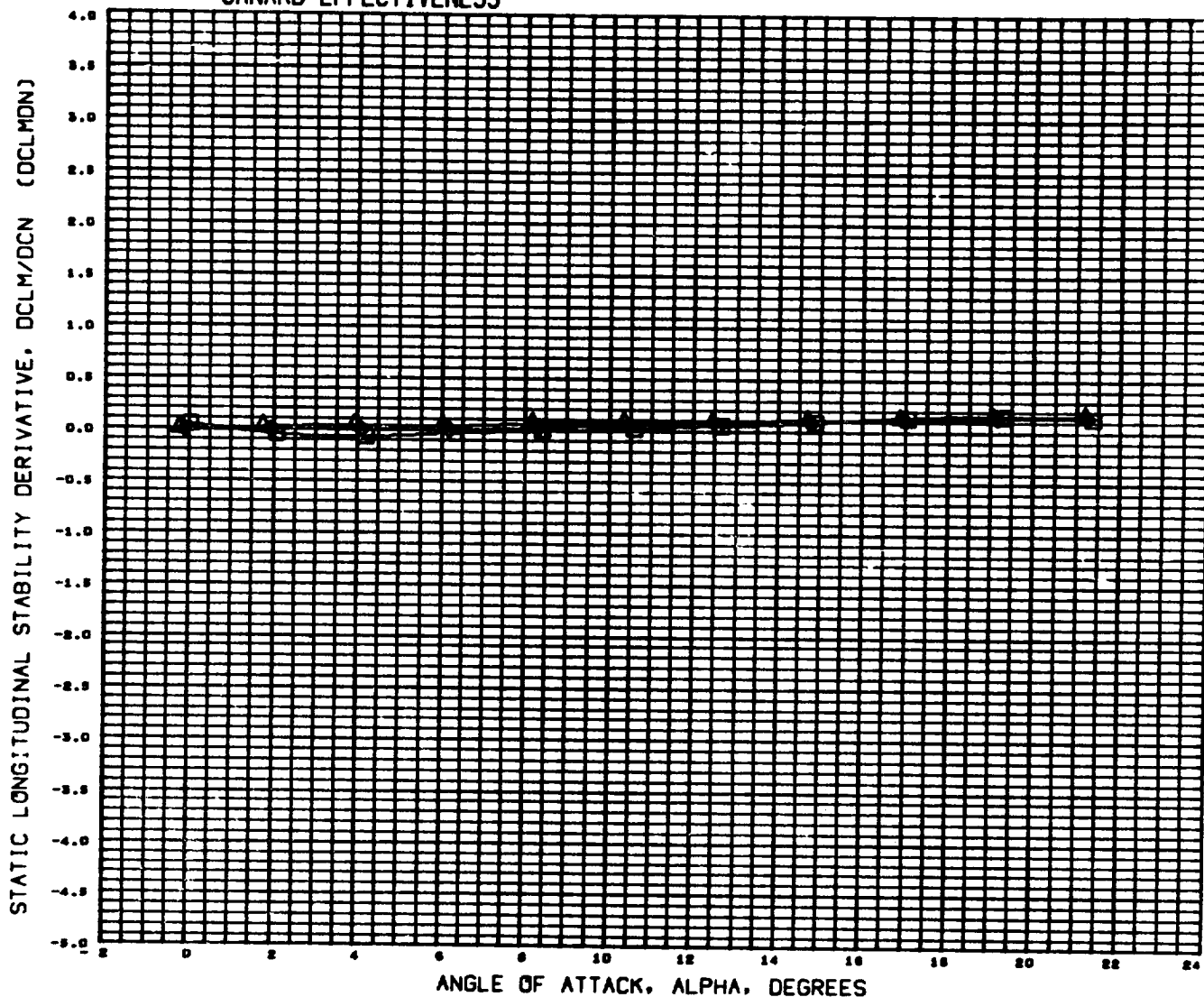
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 30. IN.
(E3405A)	M492-NSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	M492-NSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.196

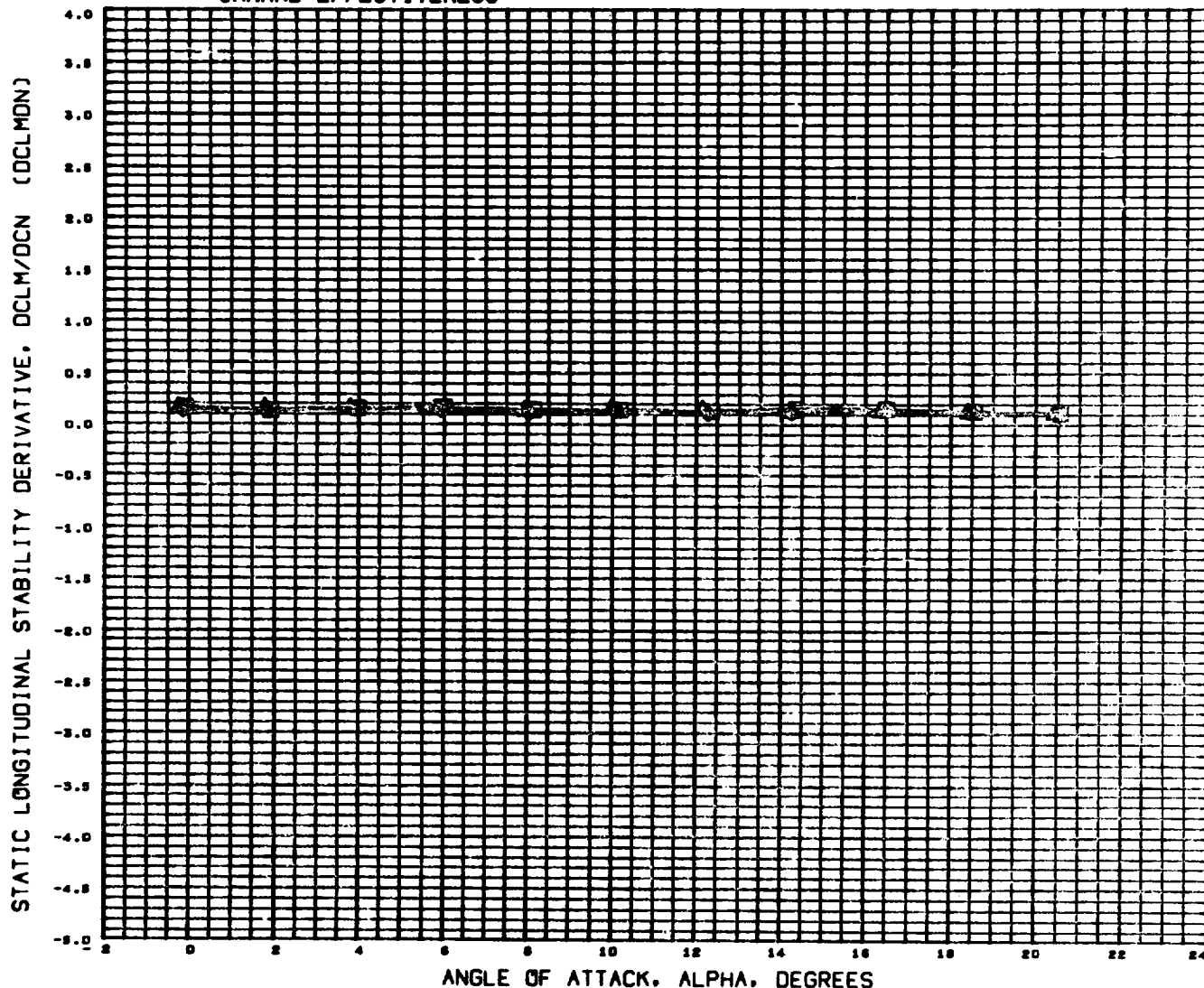
CANARD EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF 4.6225 80. IN.
(E3409A)	△	N492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	◇	N492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	10.000	0.000	0.000	SREF 4.3000 IN.
(E3407A)	□	N492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XNRP 8.4000 IN.
							YNRP 0.0000 IN.
							ZNRP 0.0000 IN.
							SCALE 0.0025

MACH 1.044

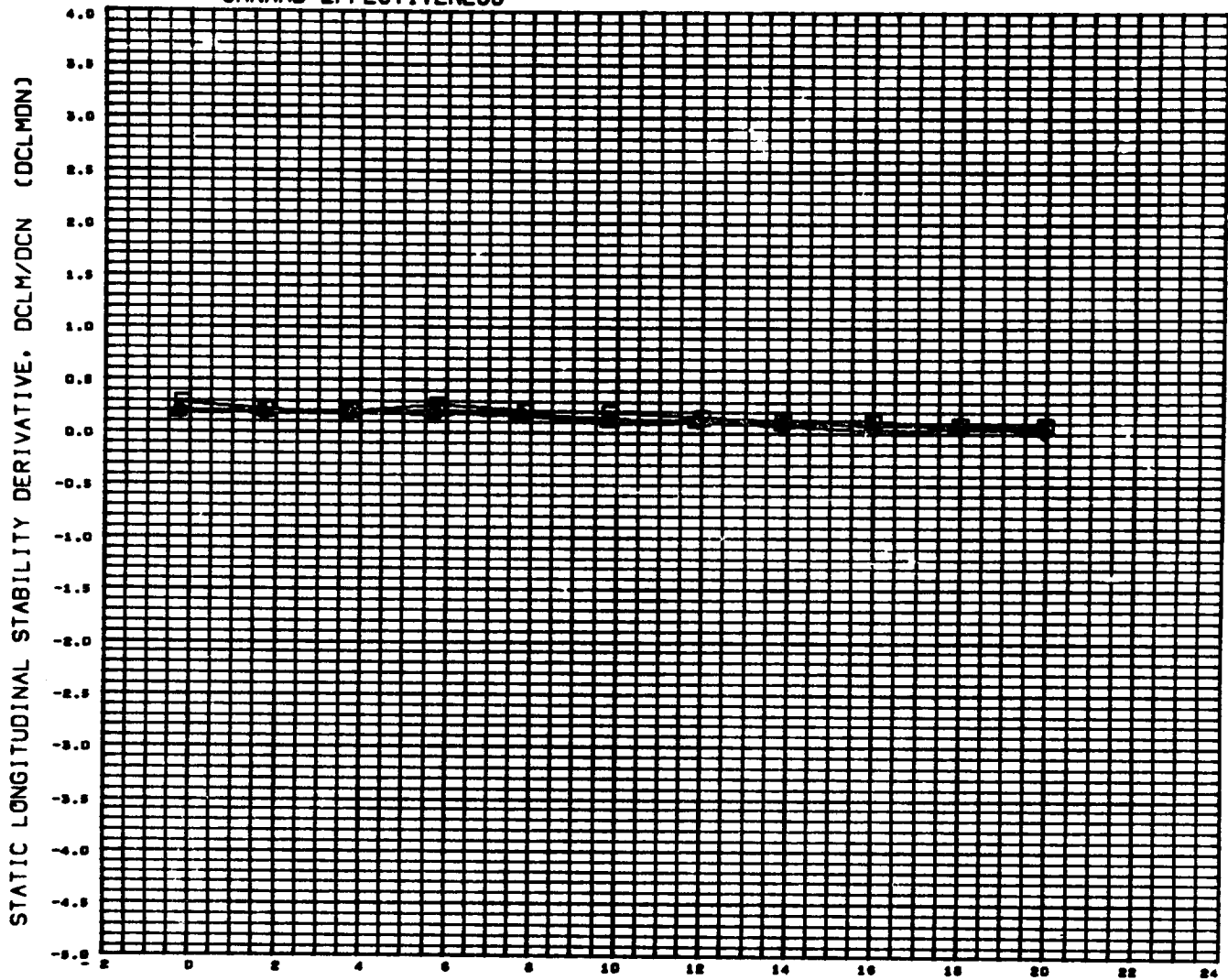
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3409A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3403A)	M492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3406A)	M492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	10.000	0.000	0.000	BREF	4.3000 IN.
(E3407A)	M492-NSFC AR11981-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 3.480

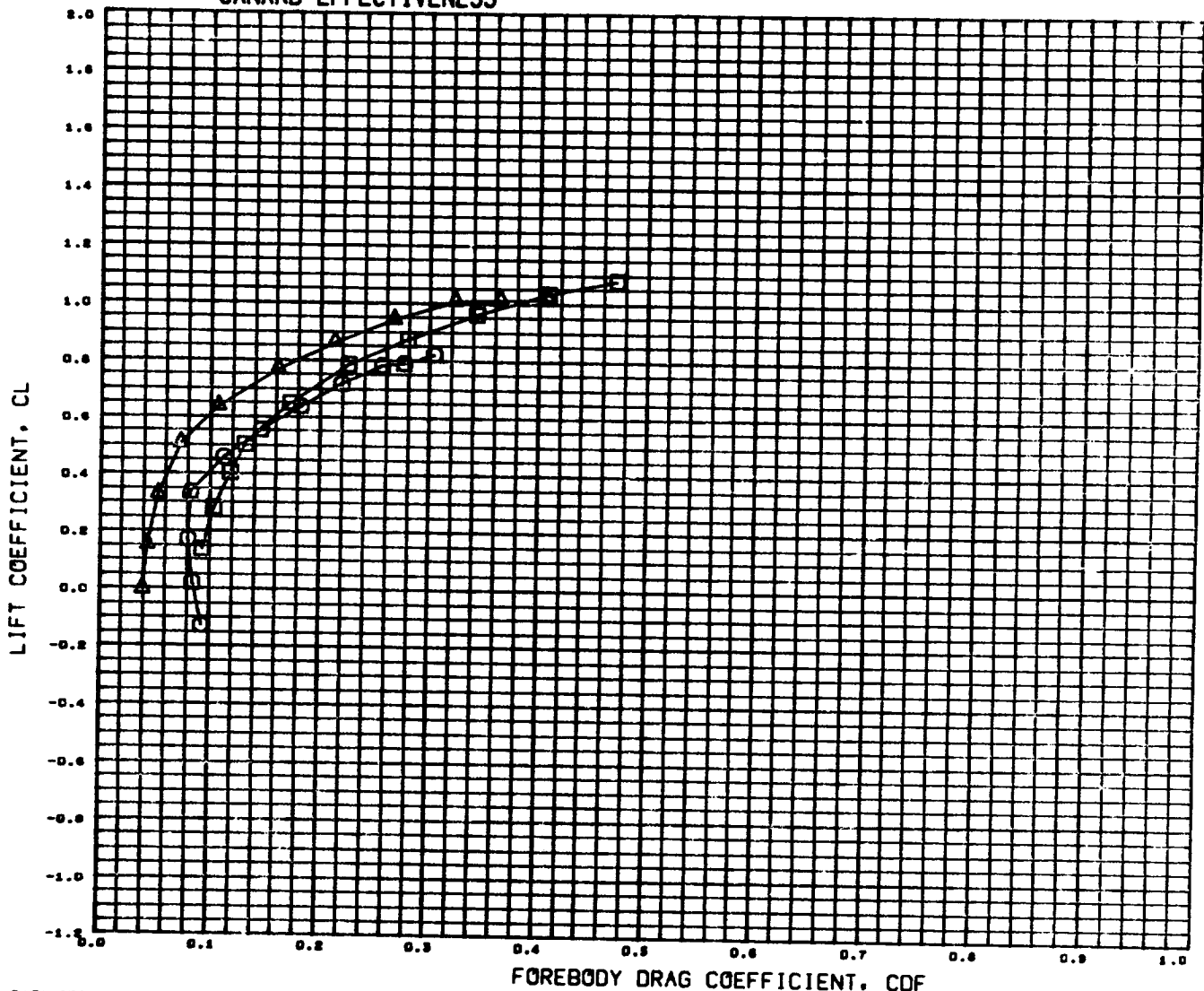
CANARD EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	-20.000	0.000	0.000	BREF 4.6225 80.IN.
(E3405A)	N49Z-NBFC AR11981-1 MODEL BW6C12V2	0.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3406A)	N49Z-NBFC AR11981-1 MODEL BW6C12V2	0.000	10.000	0.000	0.000	BREF 4.3000 IN.
(E3407A)	N49Z-NBFC AR11981-1 MODEL BW6C12V2	0.000	20.000	0.000	0.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

CANARD EFFECTIVENESS

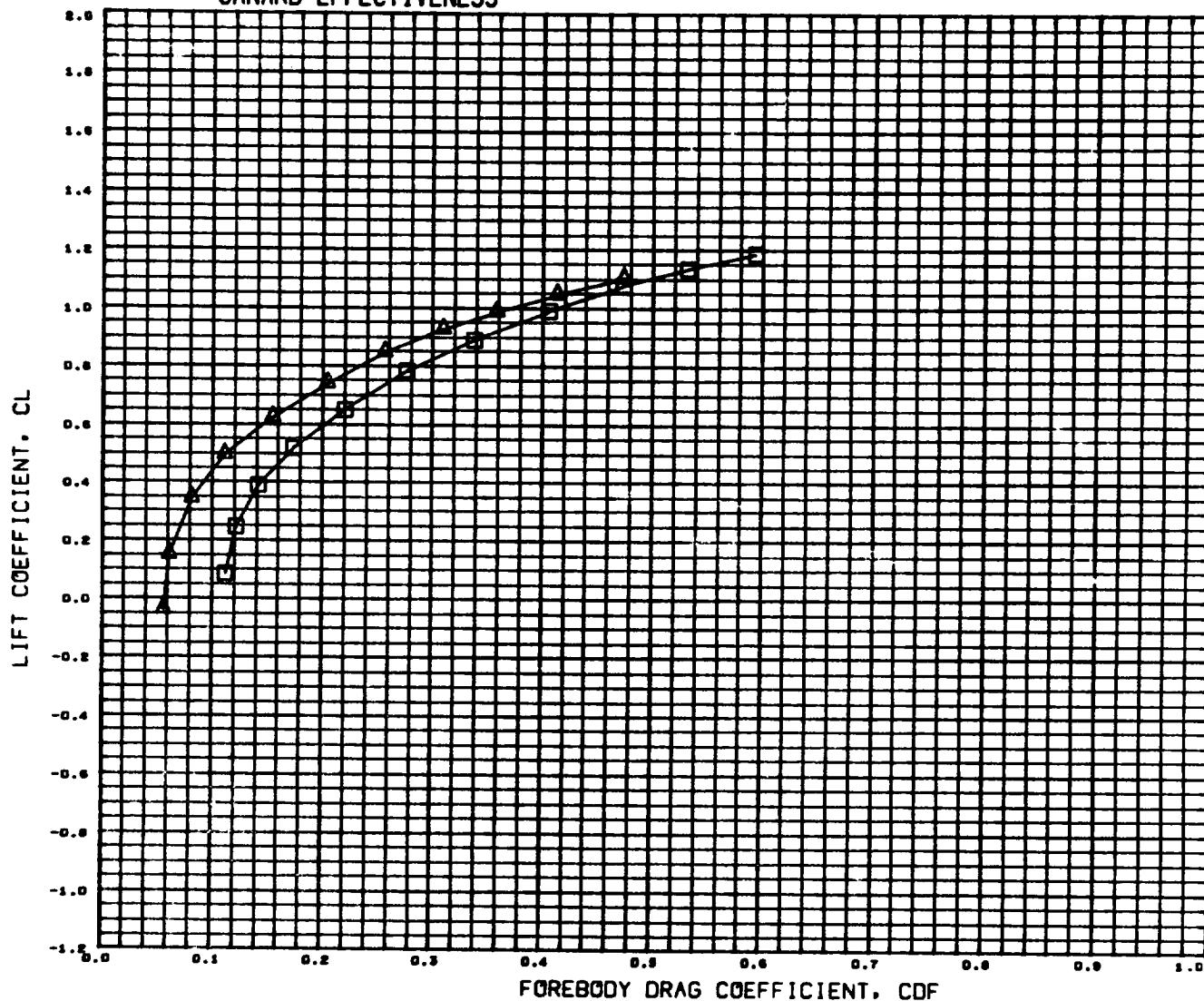


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3408A)	N492-MSFC AR11981-1 MODEL BW6C12V2
(E3405A)	N492-MSFC AR11981-1 MODEL BW6C12V2
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3407A)	N492-MSFC AR11981-1 MODEL BW6C12V2

MACH 0.397

REFERENCE INFORMATION	
SREF	4.6225 SQ. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

CANARD EFFECTIVENESS

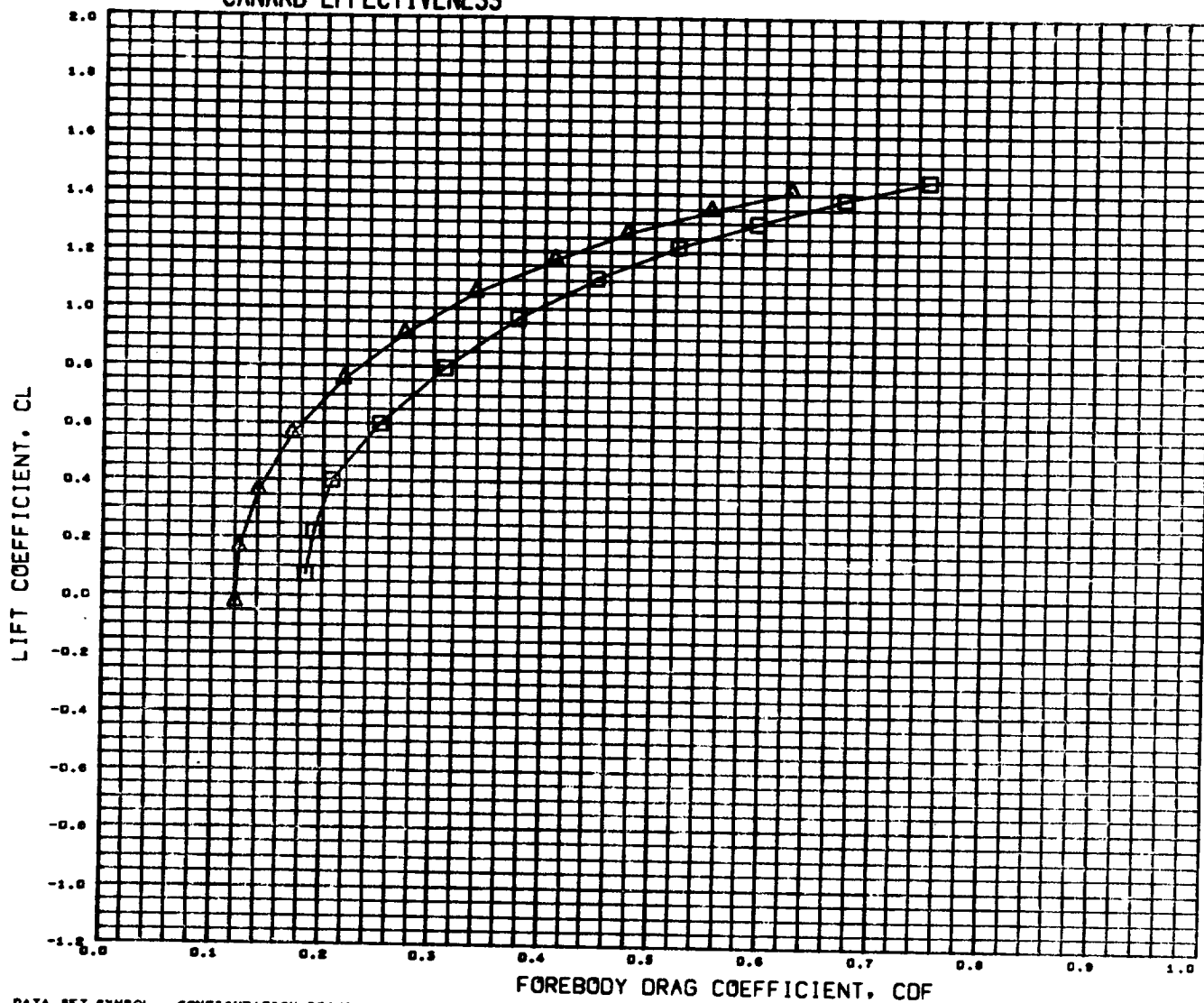


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3408A) ○ DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3408A) △ N492-NSFC AR11981-1 MODEL B2W6C12V2
 (E3406A) ◇ DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) □ N492-NSFC AR11981-1 MODEL B2W6C12V2

MACH 0.899

REFERENCE INFORMATION
 SREF 4.6225 sq.in.
 LREF 4.3000 in.
 BREF 4.3000 in.
 XHRP 2.4000 in.
 YHRP 0.0000 in.
 ZHRP 0.0000 in.
 SCALE 0.0025

CANARD EFFECTIVENESS

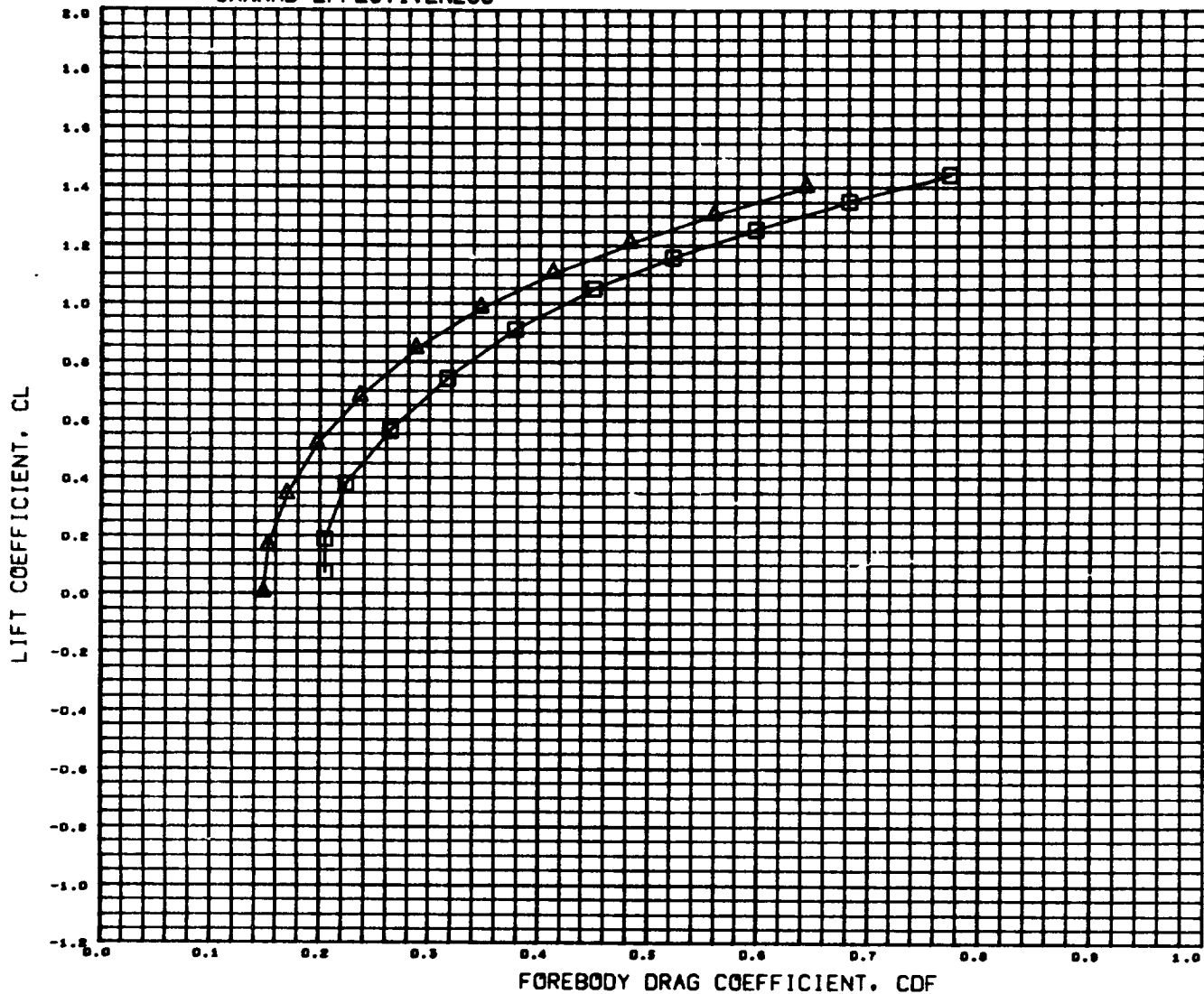


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3409A) N492-HSFC AR11981-1 MODEL 82W5C12V2
 (E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) N492-HSFC AR11981-1 MODEL 82W5C12V2

MACH 1.004

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

CANARD EFFECTIVENESS

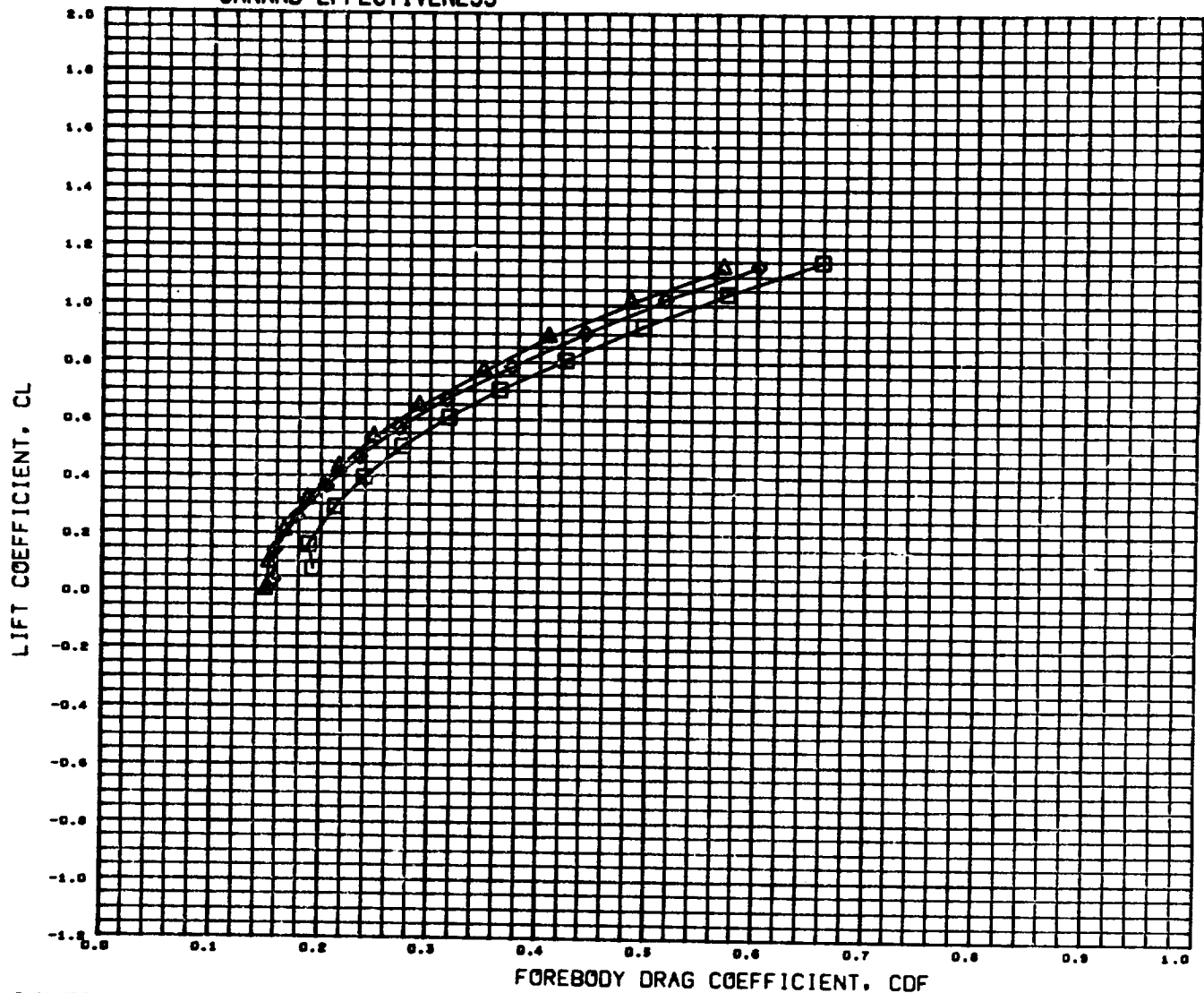


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3409A) M492-MSFC AR11981-1 MODEL BW6C12V2
 (E3406A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) M492-MSFC AR11981-1 MODEL BW6C12V2

MACH 1.196

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

CANARD EFFECTIVENESS

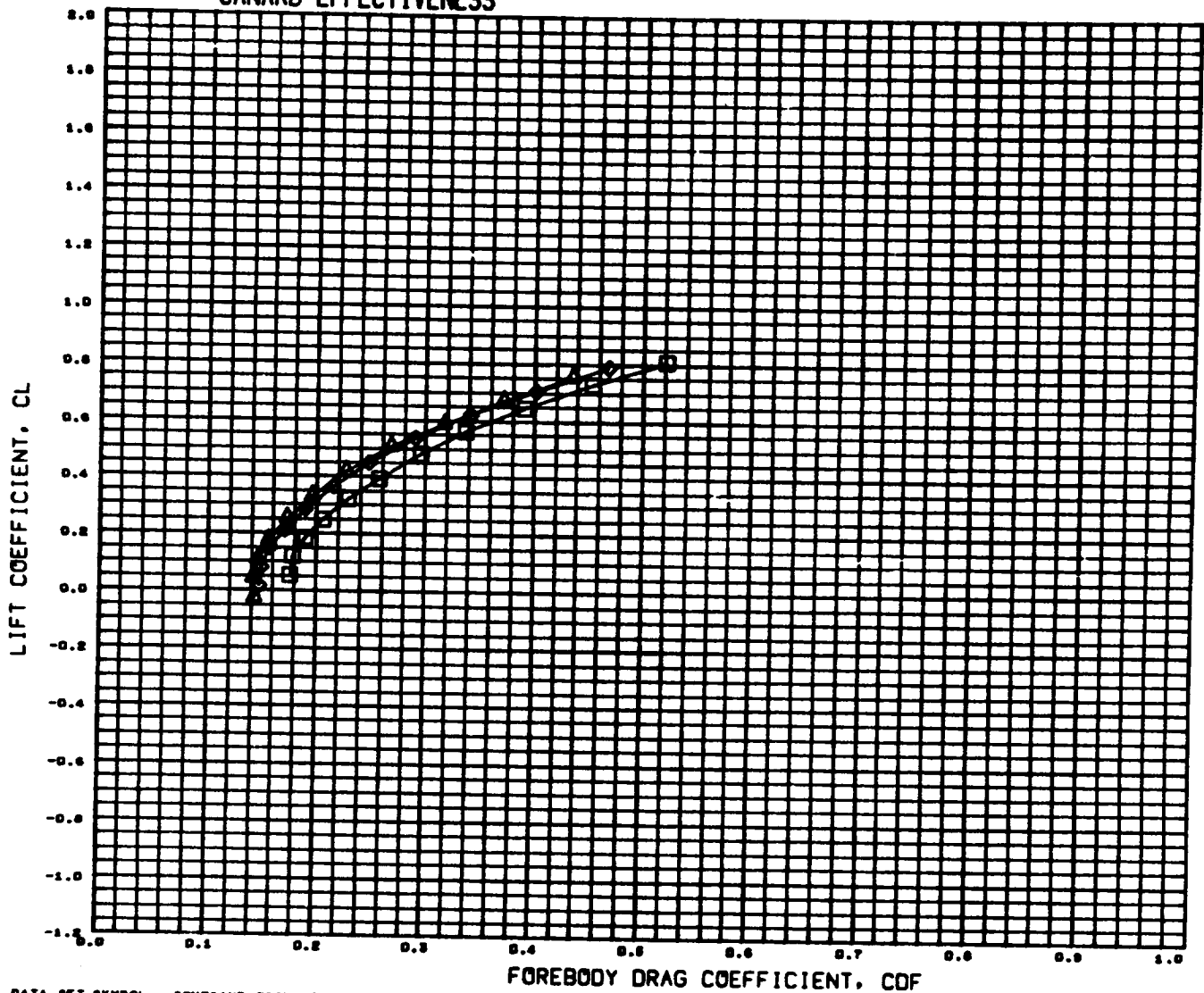


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3409A)	N492-NSFC AR11981-1 MODEL B2WC12V2
(E3406A)	N492-NSFC AR11981-1 MODEL B2WC12V2
(E3407A)	N492-NSFC AR11981-1 MODEL B2WC12V2

MACH 1.844

REFERENCE INFORMATION	
SREF	4.6225 36 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XNRP	2.4000 IN.
YNRP	0.0000 IN.
ZNRP	0.0000 IN.
SCALE	0.0025 IN.

CANARD EFFECTIVENESS

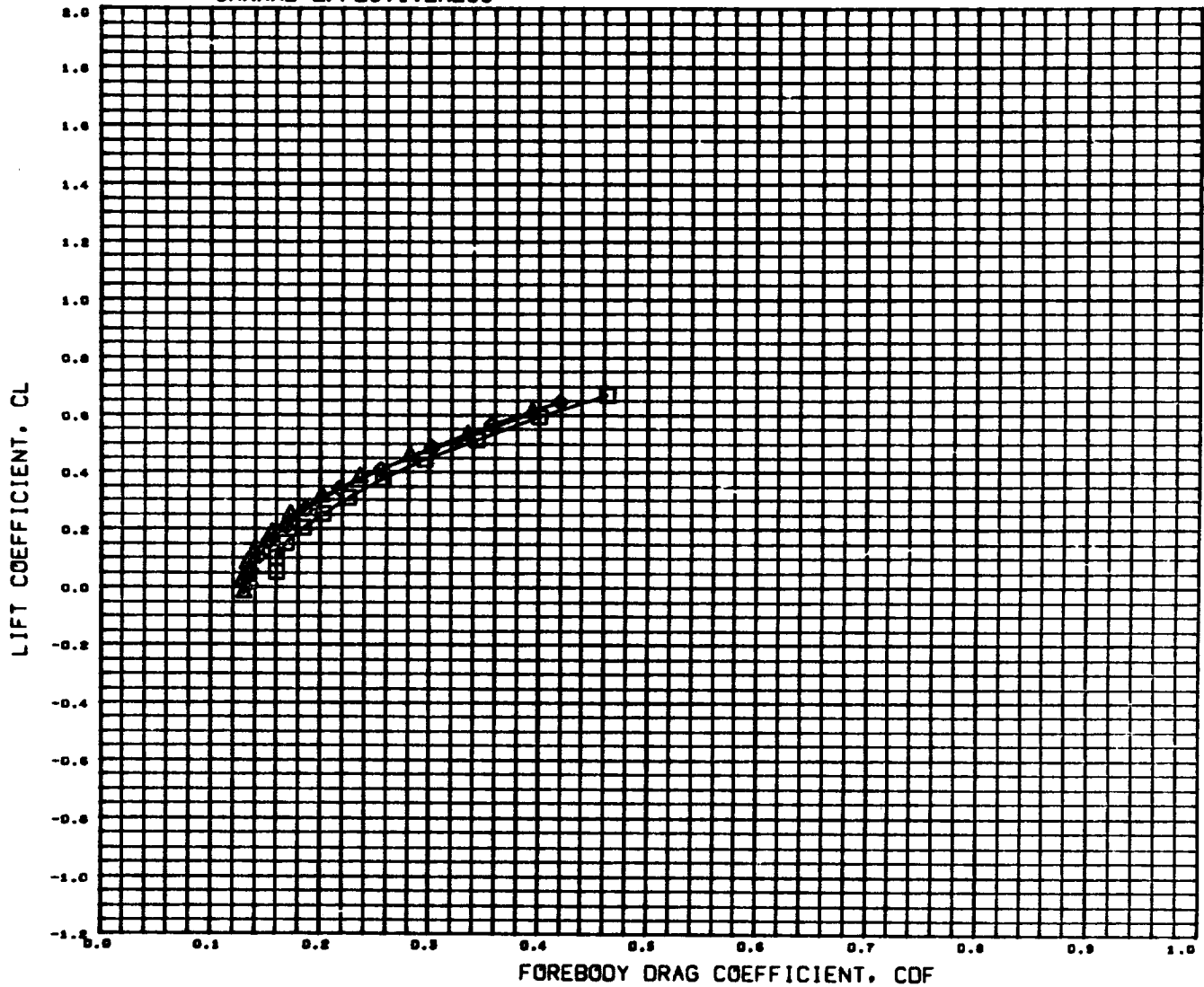


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E3408A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3408A)	△	N492-HSFC AR11991-1 MODEL SEMSC12V2
(E3406A)	◇	N492-HSFC AR11991-1 MODEL SEMSC12V2
(E3407A)	□	N492-HSFC AR11991-1 MODEL SEMSC12V2

MACH 3.480

REFERENCE INFORMATION	
OREP	4.6225 88. IN.
LREF	4.3000 IN.
OREP	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

CANARD EFFECTIVENESS

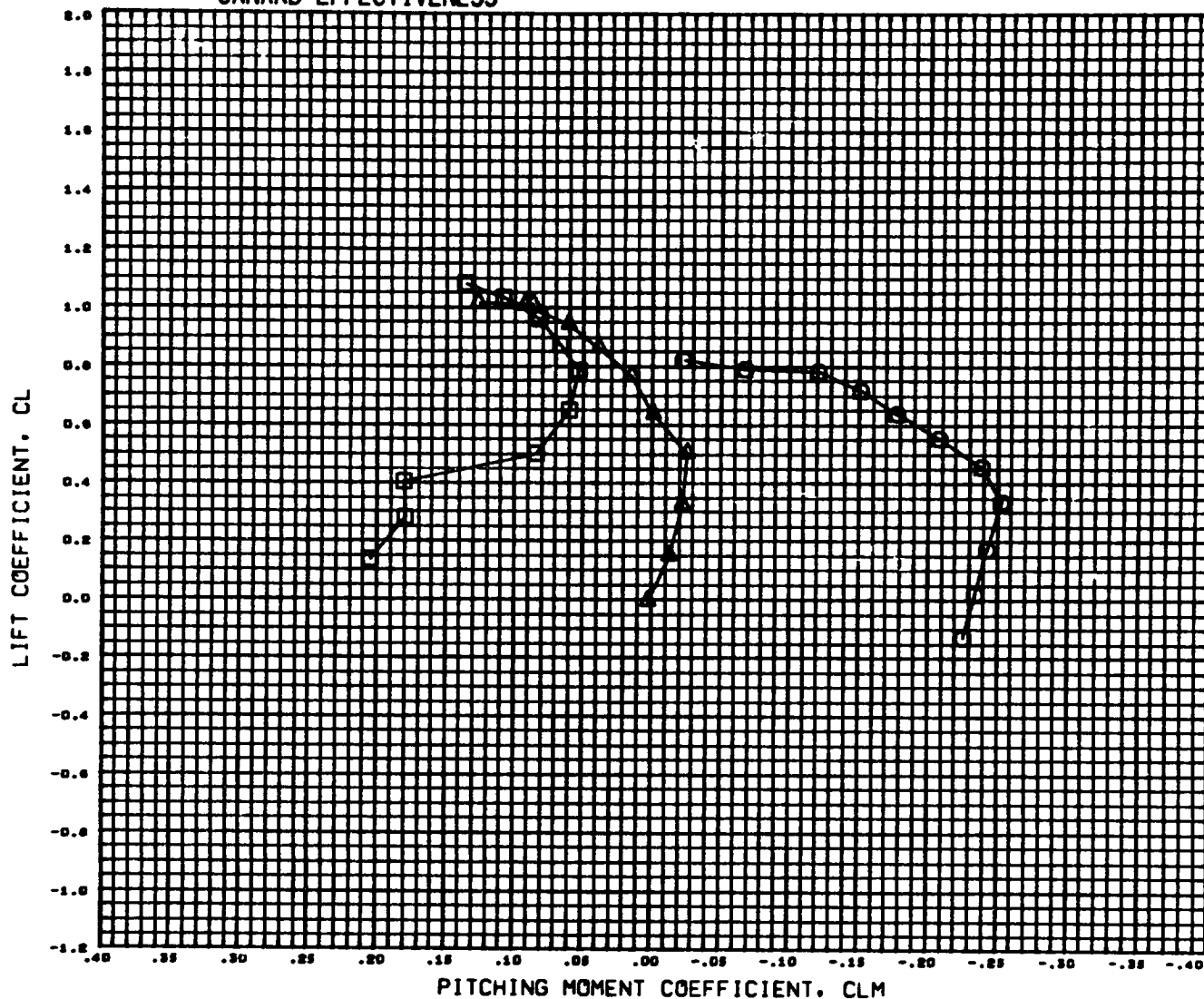


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3409A)	N492-HSFC AR11981-1 MODEL SZWNC12VZ
(E3406A)	N492-HSFC AR11981-1 MODEL SZWNC12VZ
(E3407A)	N492-HSFC AR11981-1 MODEL SZWNC12VZ

MACH 4.959

REFERENCE INFORMATION		
SREF	4.6225	SQ. IN.
LREF	4.3000	IN.
OREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

CANARD EFFECTIVENESS

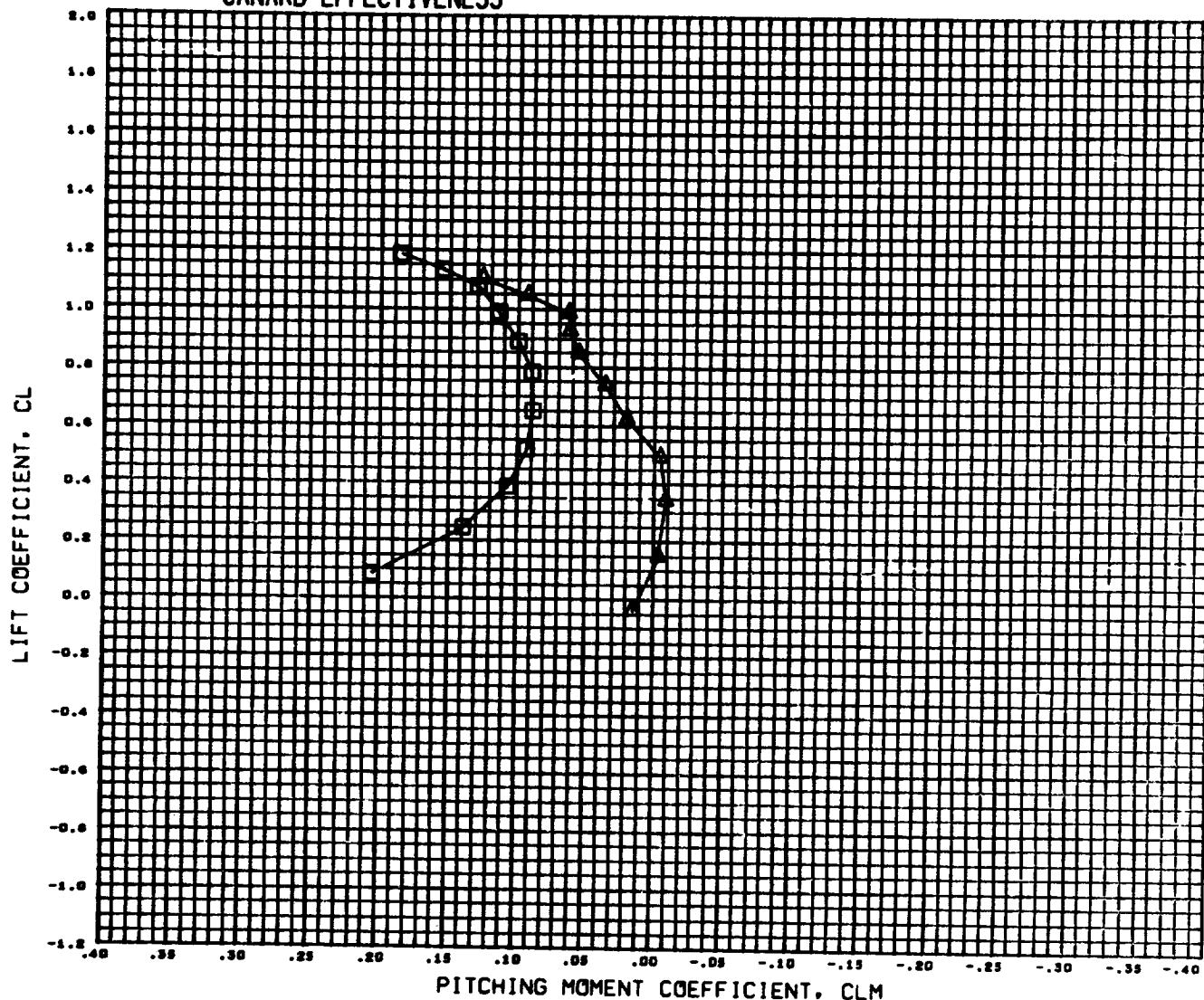


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3408A)	N492-NSFC AR11981-1 MODEL 82WSC12V2
(E3409A)	N492-NSFC AR11981-1 MODEL 82WSC12V2
(E3406A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3407A)	N492-NSFC AR11981-1 MODEL 82WSC12V2

MACH 0.597

REFERENCE INFORMATION		
BREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XHRP	2.4000	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0025	

CANARD EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3406A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3406A) M492-NSFC AR11981-1 MODEL B2W6C12V2
 (E3406A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) M492-NSFC AR11981-1 MODEL B2W6C12V2

MACH 0.899

REFERENCE INFORMATION
 SREF 4.6225 sq.in.
 LREF 4.3000 in.
 SREF 4.3000 in.
 XMRP 2.4000 in.
 YMRP 0.0000 in.
 ZMRP 0.0000 in.
 SCALE 0.0025

CANARD EFFECTIVENESS

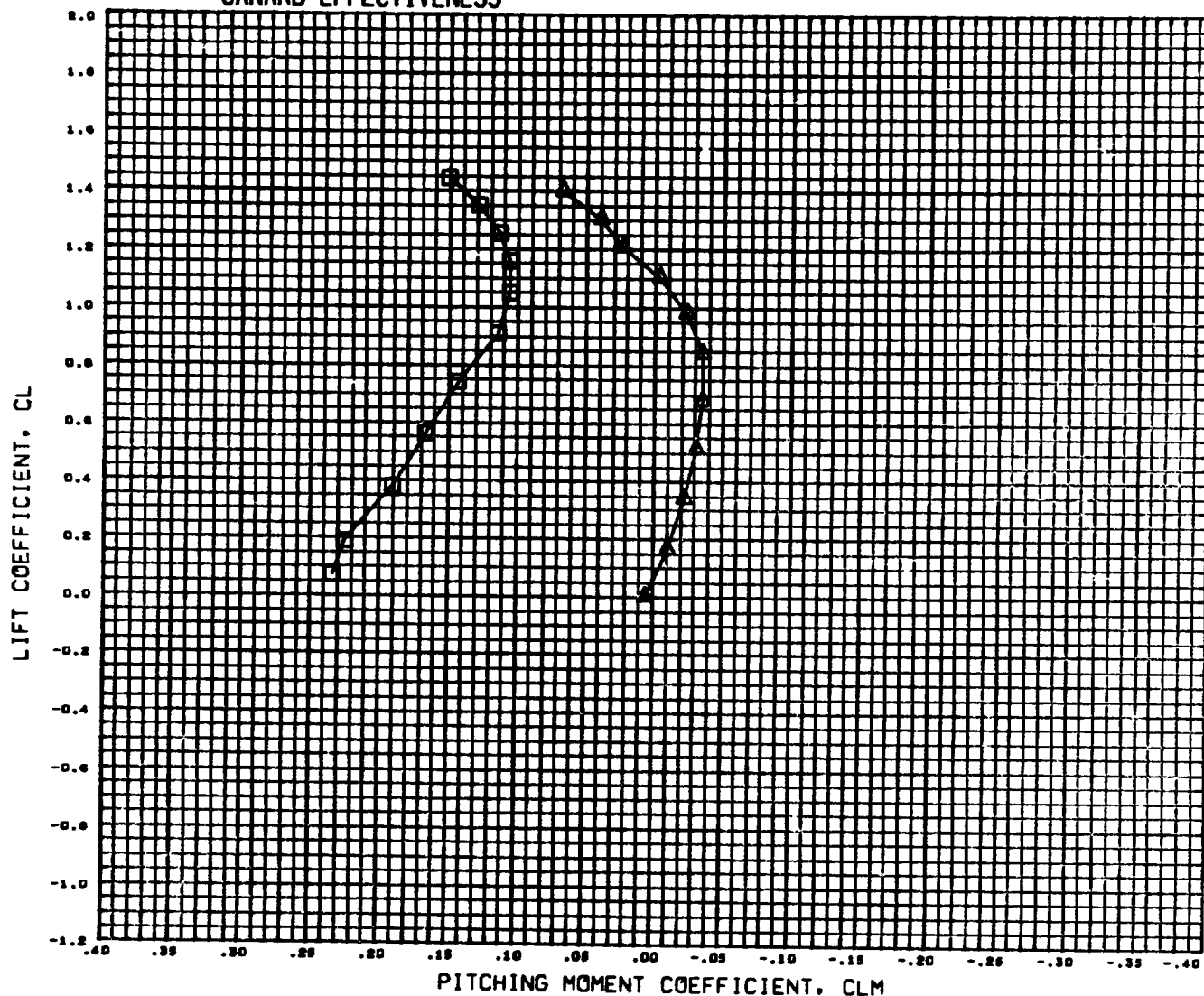


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3409A) N492-HSFC AR11981-1 MODEL BW6C12V2
 (E3406A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) N492-HSFC AR11981-1 MODEL BW6C12V2

MACH 1.004

REFERENCE INFORMATION
 SREF 4.6225 88.1N.
 LREF 4.3000 IN.
 SREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.8000 IN.
 ZMRP 0.8000 IN.
 SCALE 0.0025

CANARD EFFECTIVENESS

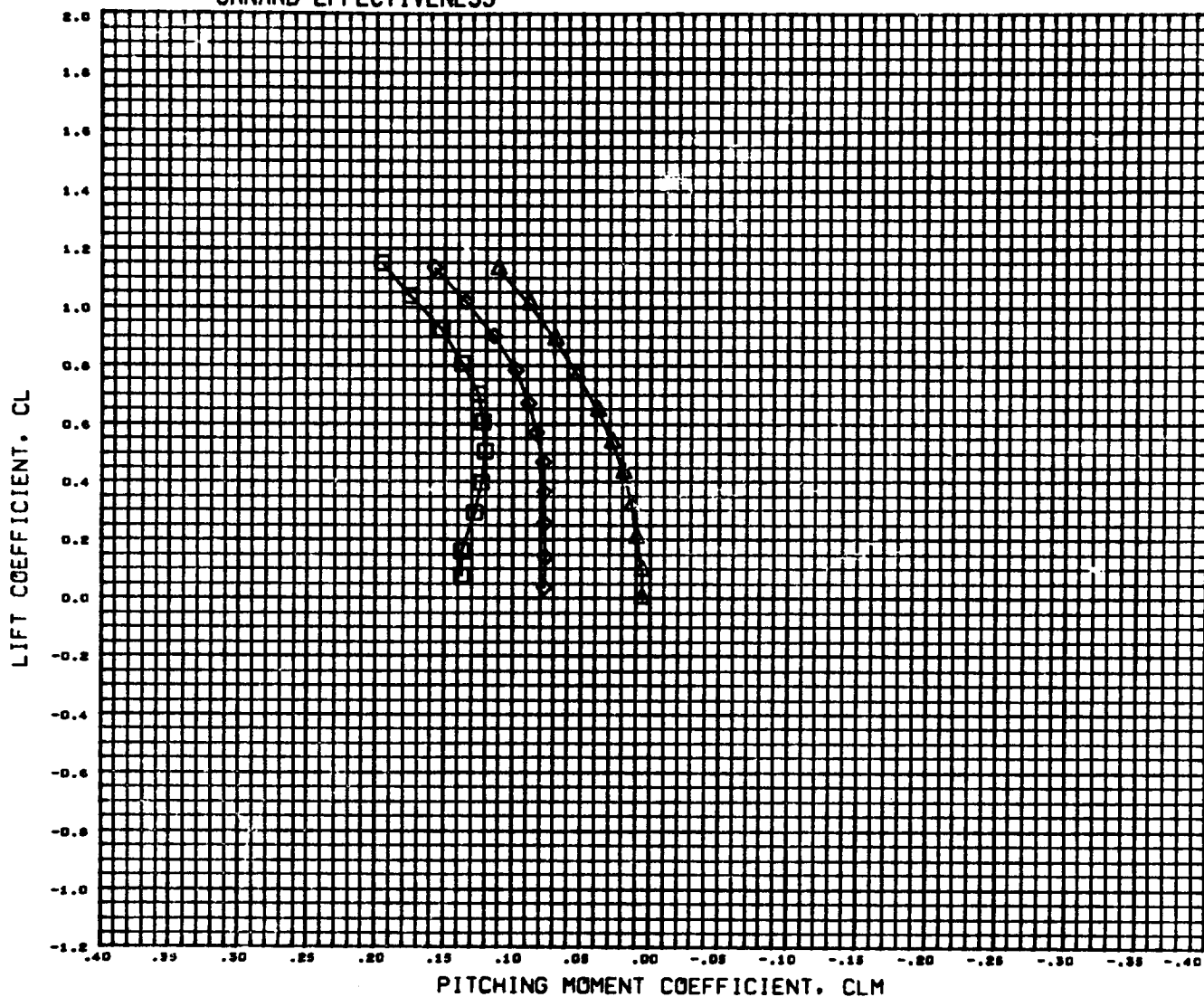


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3408A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3405A) M492-MSFC AR11981-1 MODEL B2W6C12V2
 (E3406A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407A) M492-MSFC AR11981-2 MODEL B2W6C12V2

MACH 1.196

REFERENCE INFORMATION
 BREF 4.6225 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

CANARD EFFECTIVENESS

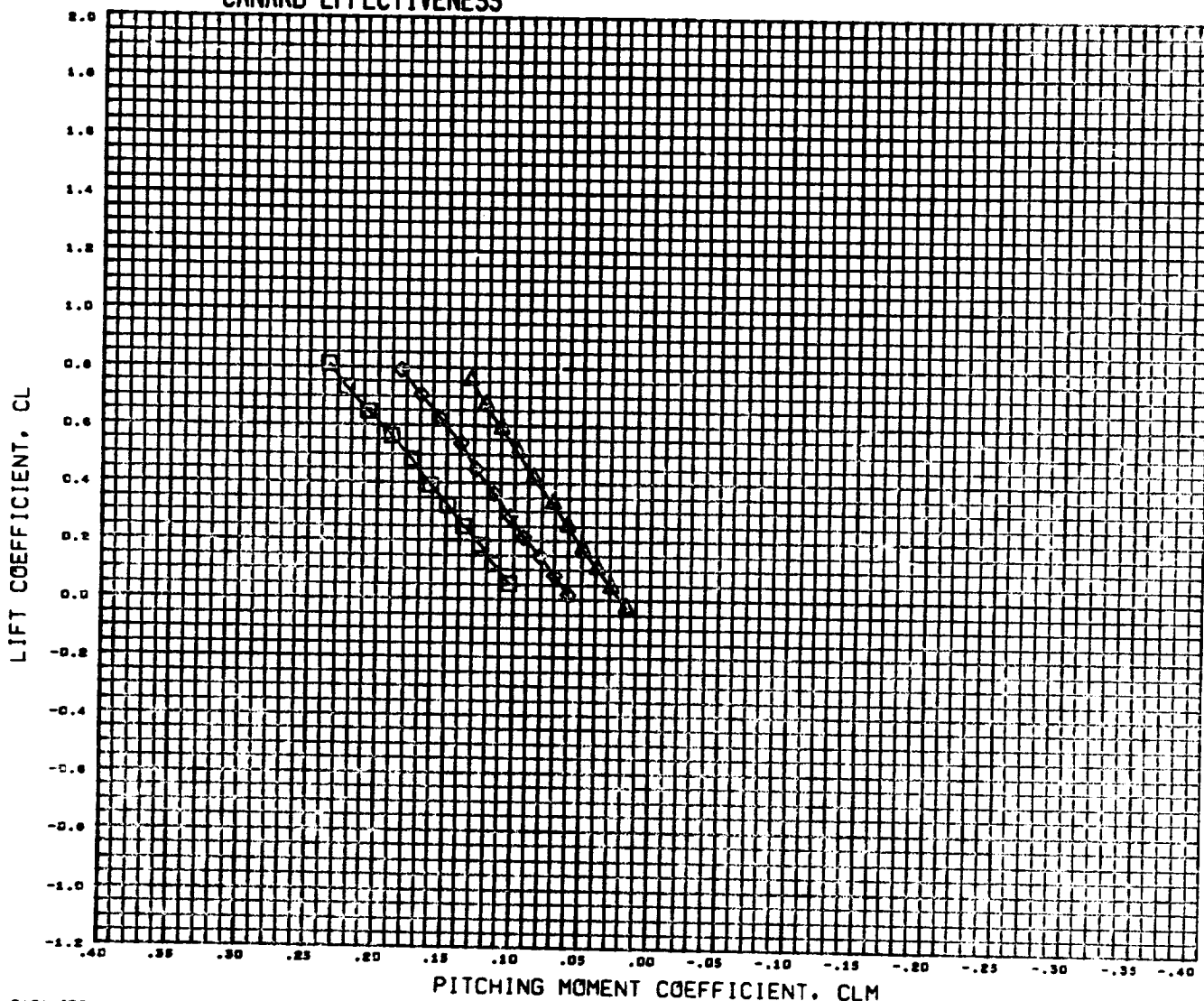


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3405A)	N492-N5FC AR11861-1 MODEL B2W6C12V2
(E3406A)	N492-N5FC AR11861-1 MODEL B2W6C12V2
(E3407A)	N492-N5FC AR11861-1 MODEL B2W6C12V2

MACH 1.944

REFERENCE INFORMATION	
BREF	4.6223 98 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
ZMRP	2.4000 IN.
ZMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

CANARD EFFECTIVENESS

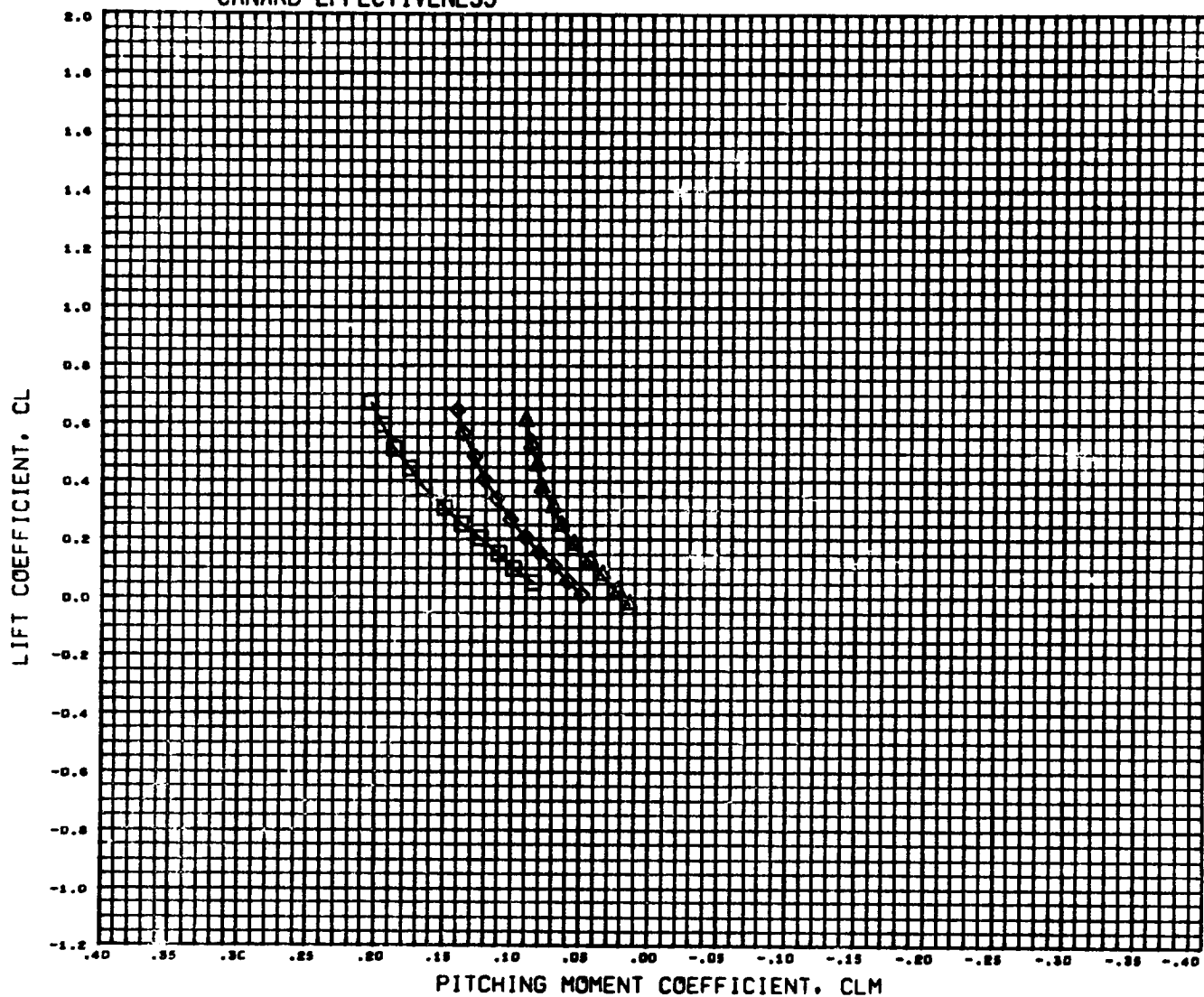


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3400A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3405A)	M492-HSFC AR11981-1 MODEL 82W6C12V2
(E3406A)	M492-HSFC AR11981-1 MODEL 82W6C12V2
(E3407A)	M492-HSFC AR11981-1 MODEL 82W6C12V2

MACH 5.480

REFERENCE INFORMATION	
SREF	4.6225 SQ. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

CANARD EFFECTIVENESS

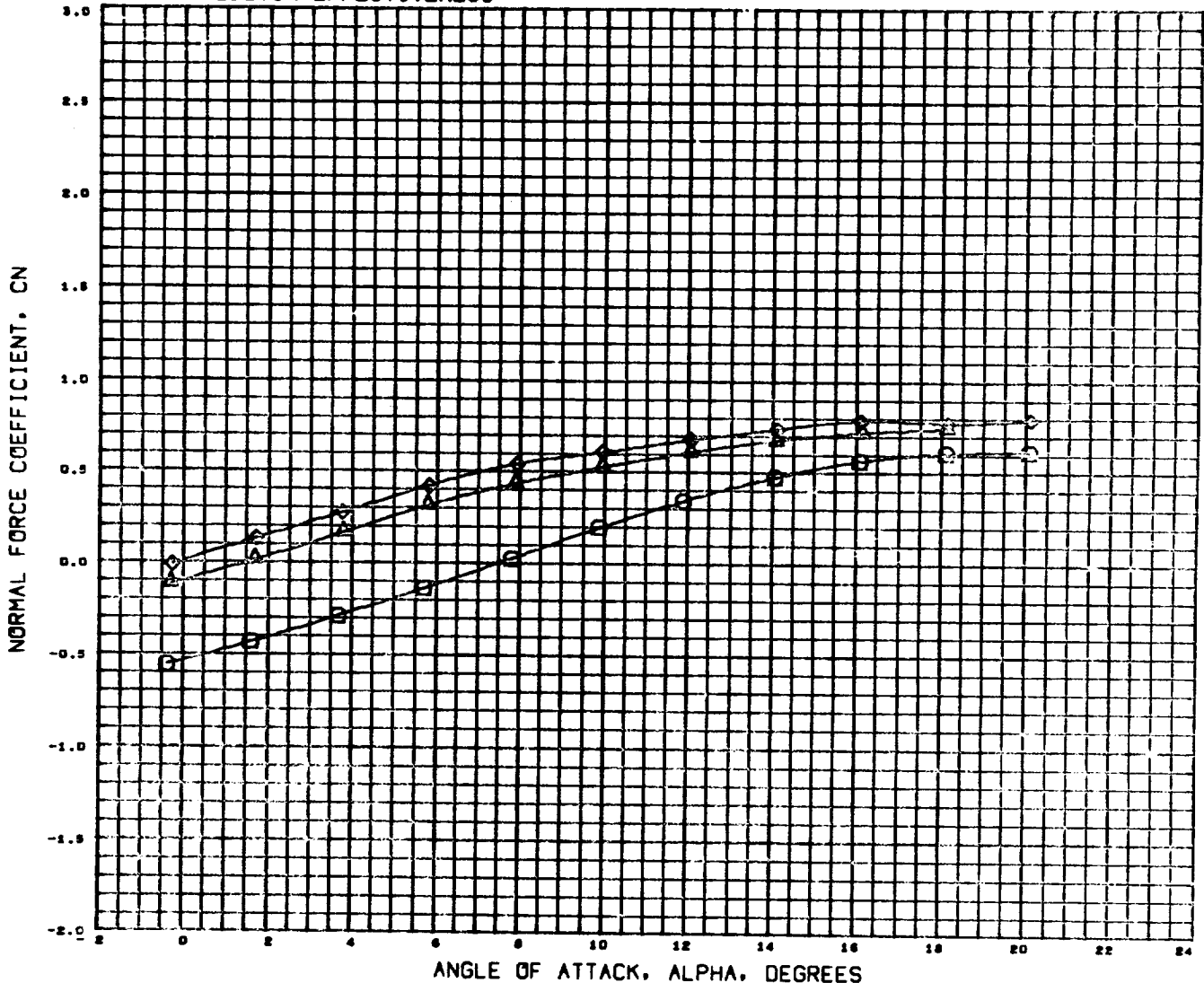


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3408A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3408A)	N492-NBFC AR11981-1 MODEL 82W6C12V2
(E3408A)	N492-NBFC AR11981-1 MODEL 82W6C12V2
(E3407A)	N492-NBFC AR11981-1 MODEL 82W6C12V2

MACH 2.959

REFERENCE INFORMATION	
BREF	4.6223 86.IN.
LREF	4.5000 IN.
BREF	4.5000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

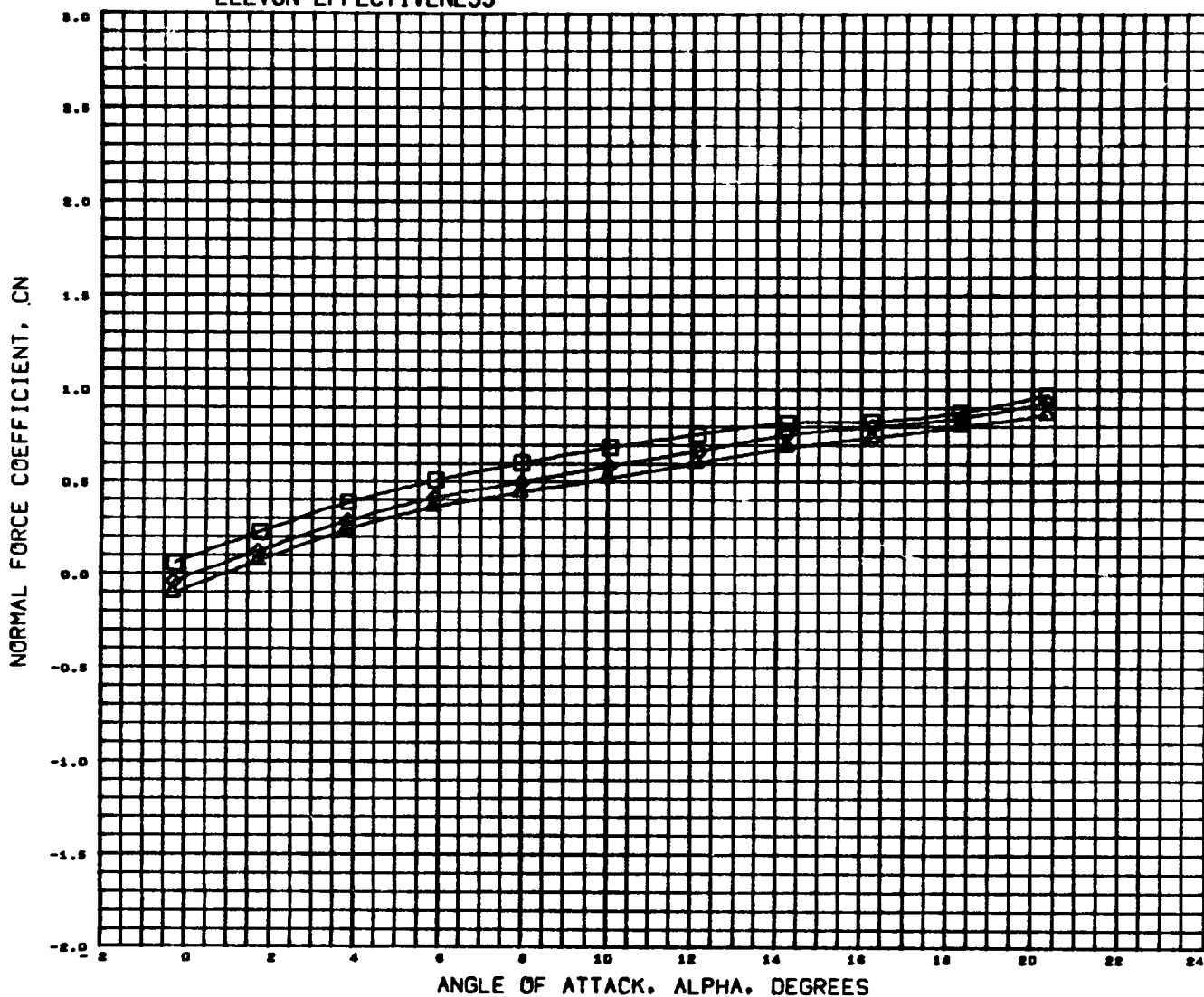
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	M492-MSFC AR11981-1 MODEL B2W6V2	-30.000	-30.000	-30.000	0.000	SREF	4.6225 SQ. IN.
(E3412A)	M492-MSFC AR11981-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E3411A)	M492-MSFC AR11981-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.600

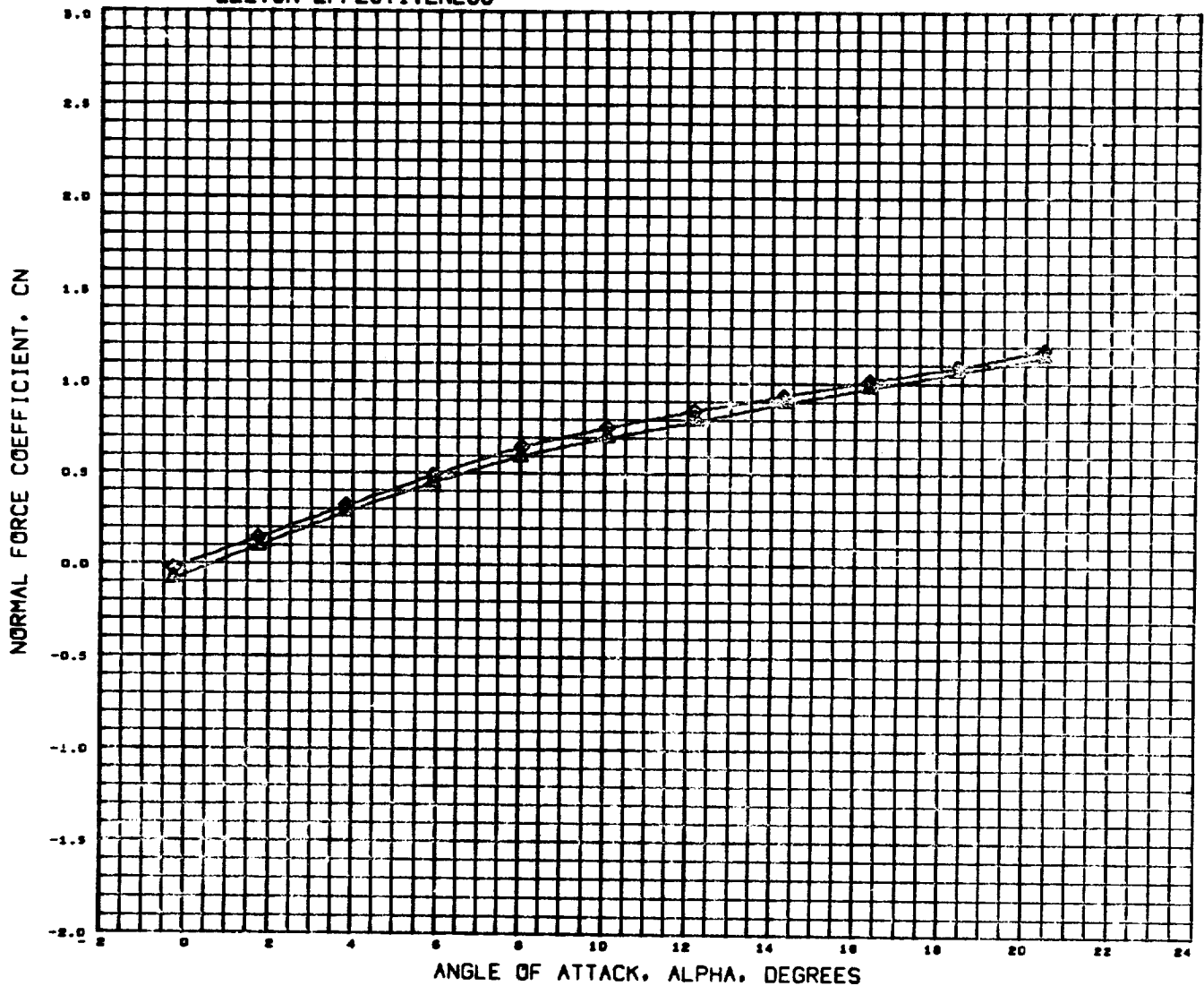
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF 4.6225 80. IN.
(E3412A)	N492-MSFC ARI1901-1 MODEL 02W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	N492-MSFC ARI1901-1 MODEL 02W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	N492-MSFC ARI1901-1 MODEL 02W6V2	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.903

ELEVON EFFECTIVENESS



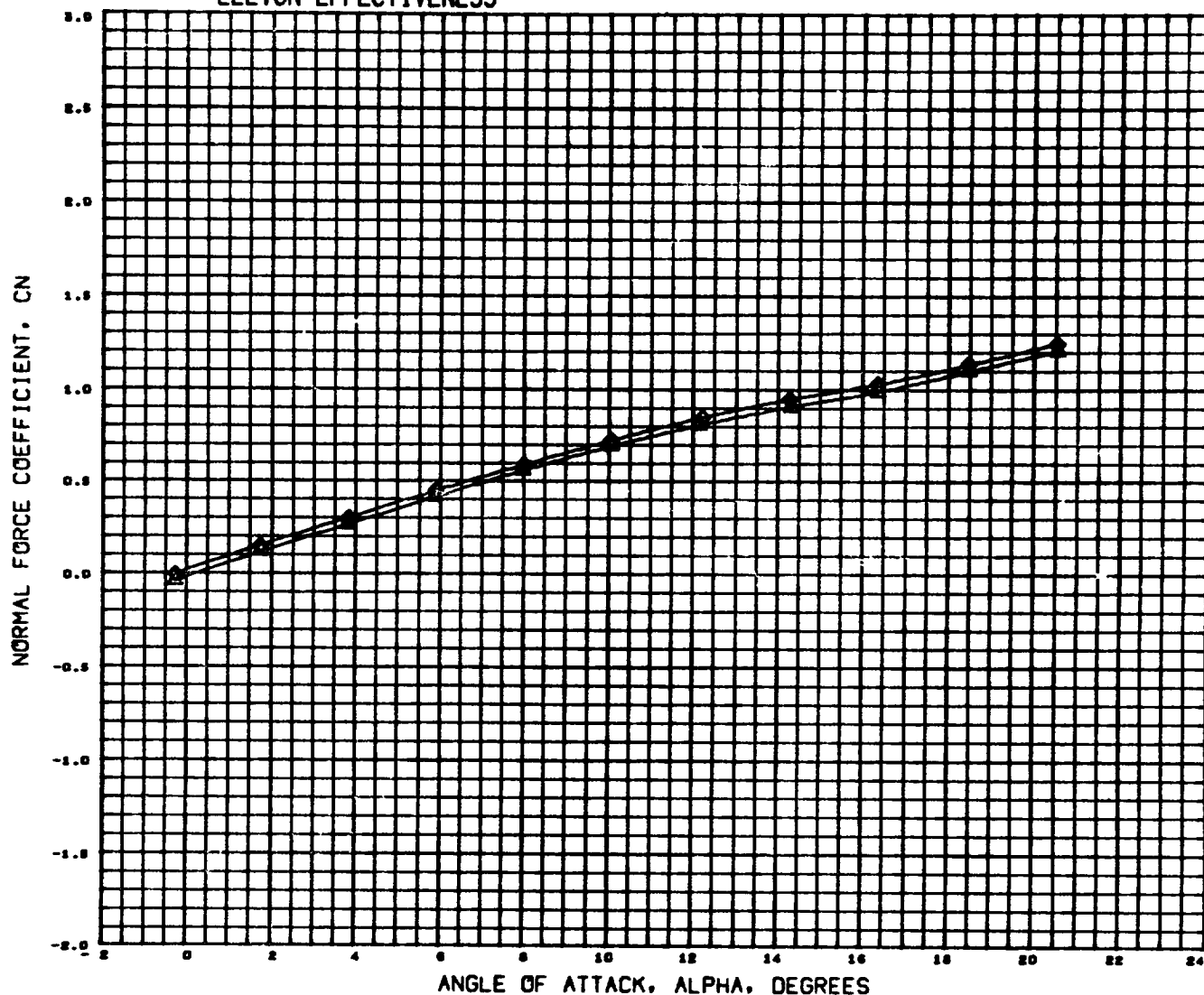
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-MSFC AR11991-1 MODEL 82W6V2
 (E3411A) M492-MSFC AR11991-1 MODEL 82W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
-30.000	-30.000	-30.000	0.000	SRF 4.6225 30.IN.
0.000	-10.000	-5.000	-5.000	LRF 4.3000 IN.
0.000	0.000	0.000	0.000	BRF 4.3000 IN.
10.000	0.000	5.000	5.000	XHRP 2.4000 IN.
				YHRP 0.0000 IN.
				ZHRP 0.0000 IN.
				SCALE 0.0025

MACH 1.006

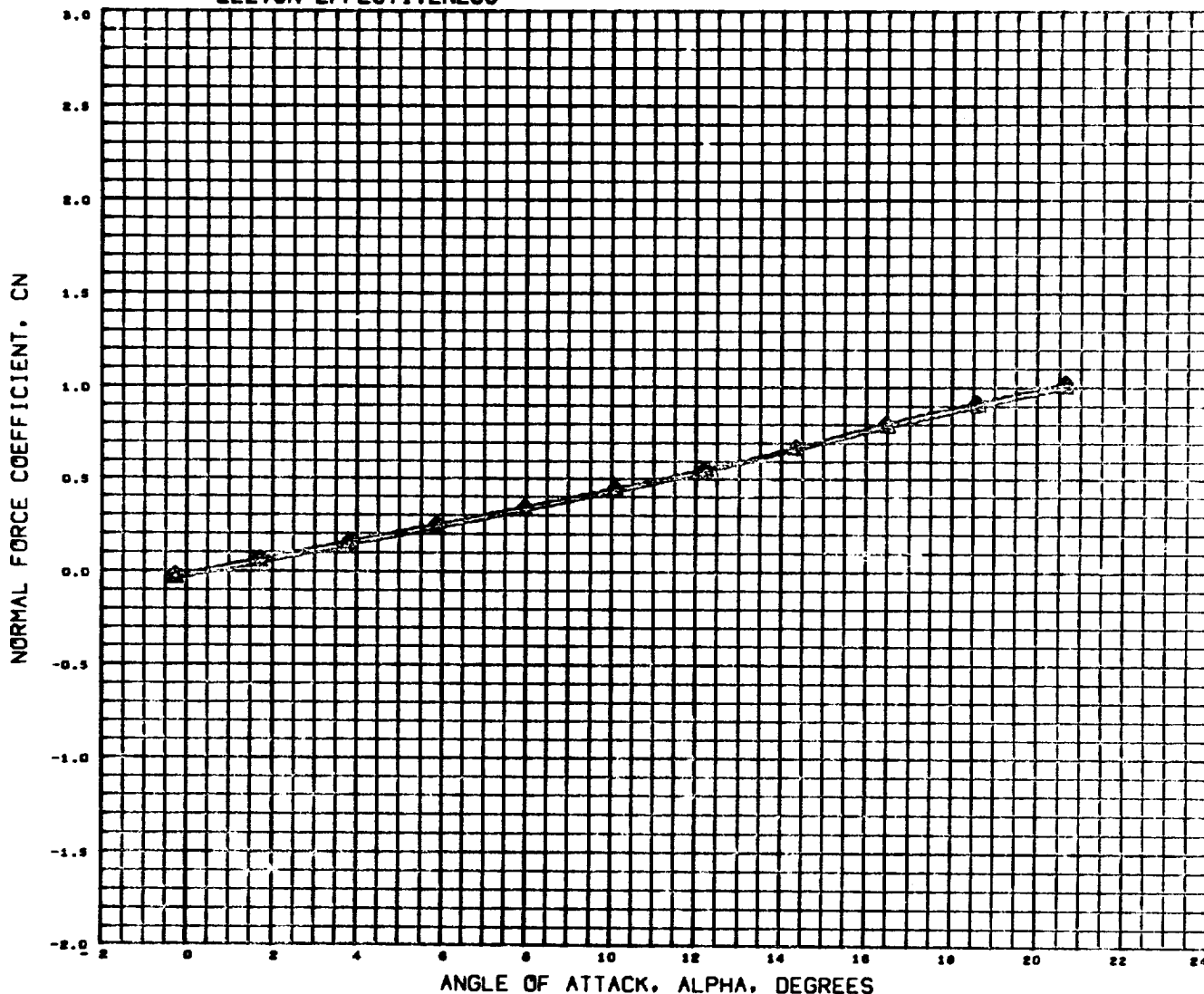
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF	4.6225 88. IN.
(E3412A)	M492-HSFC AR11901-1 MODEL SEMV2	0.000	-10.000	-9.000	-9.000	LREF	4.3000 1N.
(E3411A)	M492-HSFC AR11901-1 MODEL SEMV2	0.000	0.000	0.000	0.000	BREF	4.3000 1N.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	9.000	9.000	XNRP	8.4000 1N.
						YNRP	0.0000 1N.
						ZNRP	0.0000 1N.
						SCALE	0.0025

MACH 1.106

ELEVON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) H492-NSFC AR1981-1 MODEL BEMV2
 (E3411A) H492-NSFC AR1981-1 MODEL BEMV2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

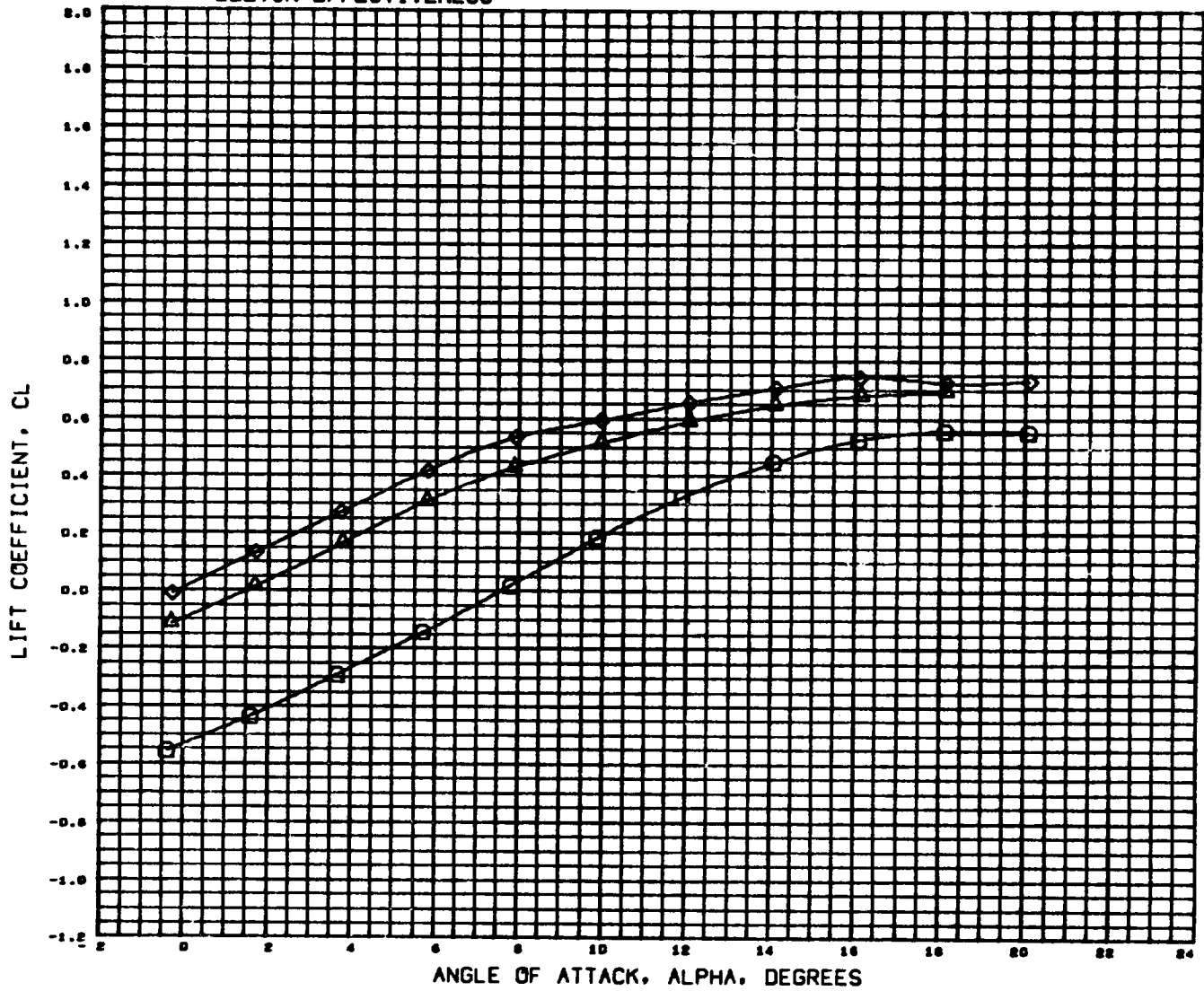
DEL	DER	ELEVTR	AILRON
-30.000	-30.000	-30.000	0.000
0.000	-10.000	-5.000	-5.000
0.000	0.000	0.000	0.000
10.000	0.000	5.000	5.000

REFERENCE INFORMATION

REFERENCE INFORMATION	VALUE	UNIT
SREF	4.6225	sq.in.
LREF	4.3000	in.
BREF	4.3000	in.
XMRP	2.4000	in.
YMRP	0.0000	in.
ZMRP	0.0000	in.
SCALE	0.0025	

MACH 1.961

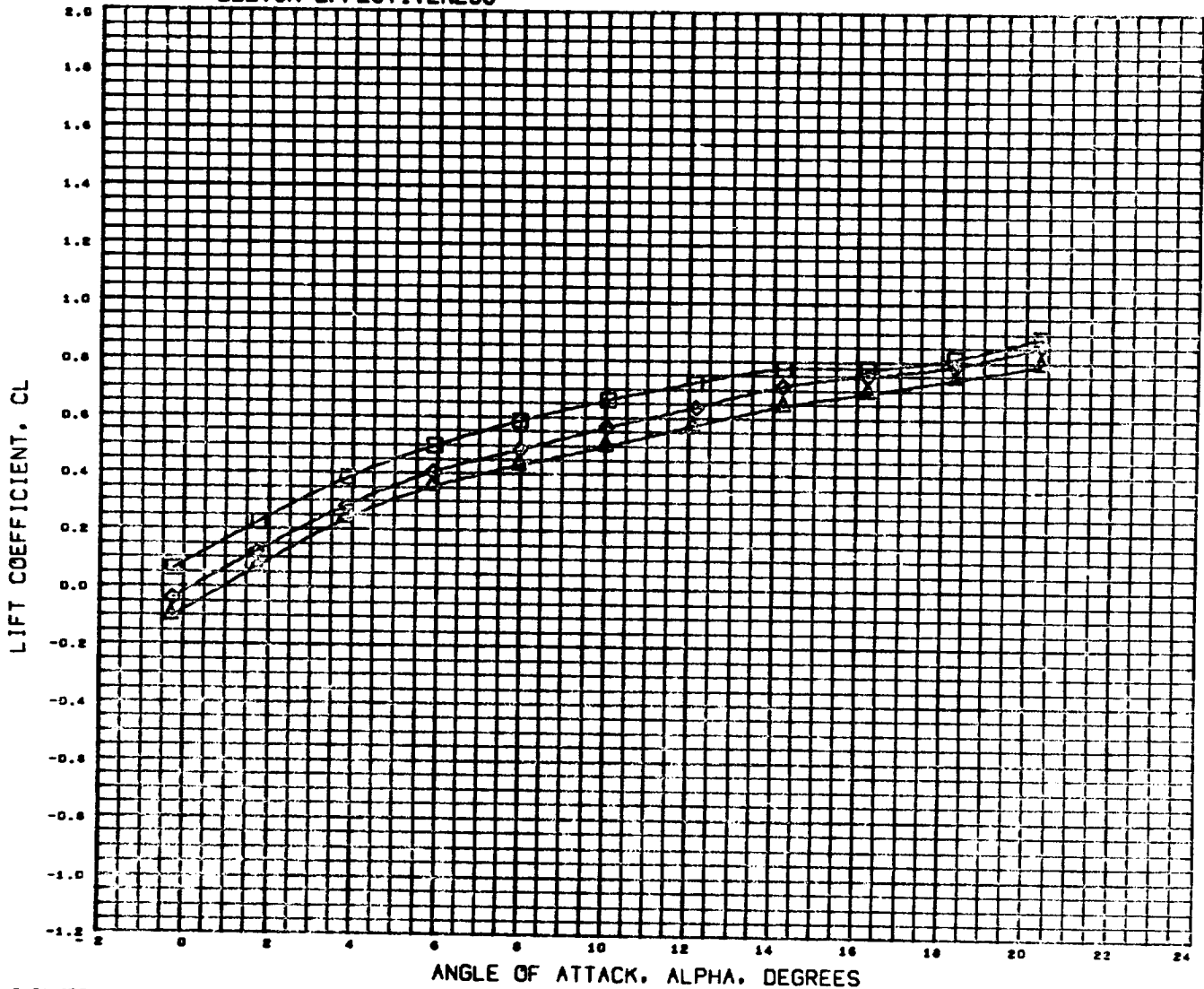
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	N492-MBFC AR11981-1 MODEL B2W6V2	-30.000	-30.000	-30.000	0.000	BREF 4.6229 80.IN.
(E3412A)	N492-MBFC AR11981-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3413A)	N492-MBFC AR11981-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0028

MACH 0.600

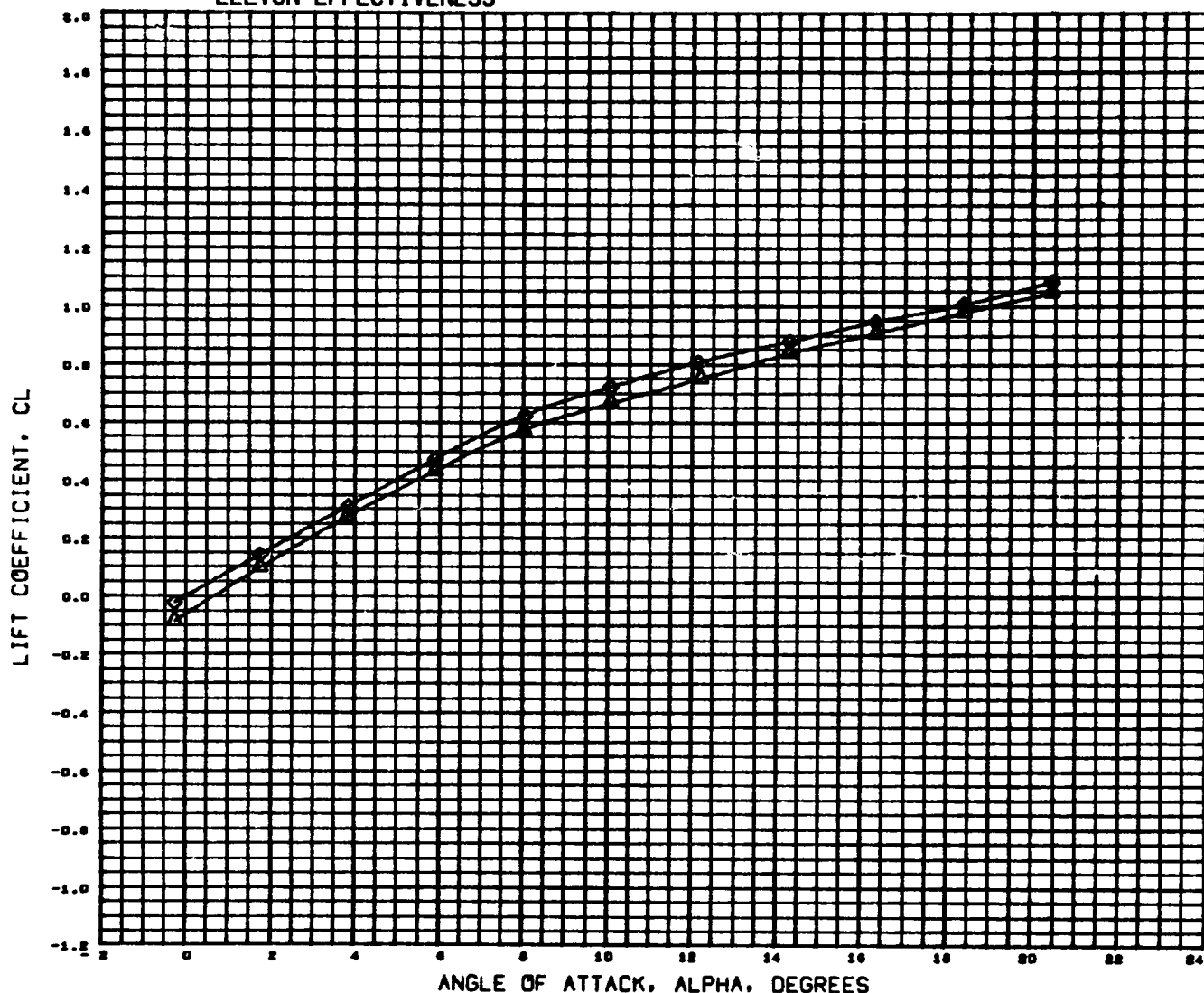
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 50. IN.
(E3412A)	N492-NSFC AR11901-1 MODEL 82W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	N492-NSFC AR11901-1 MODEL 82W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	N492-NSFC AR11901-1 MODEL 82W6V2	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.003

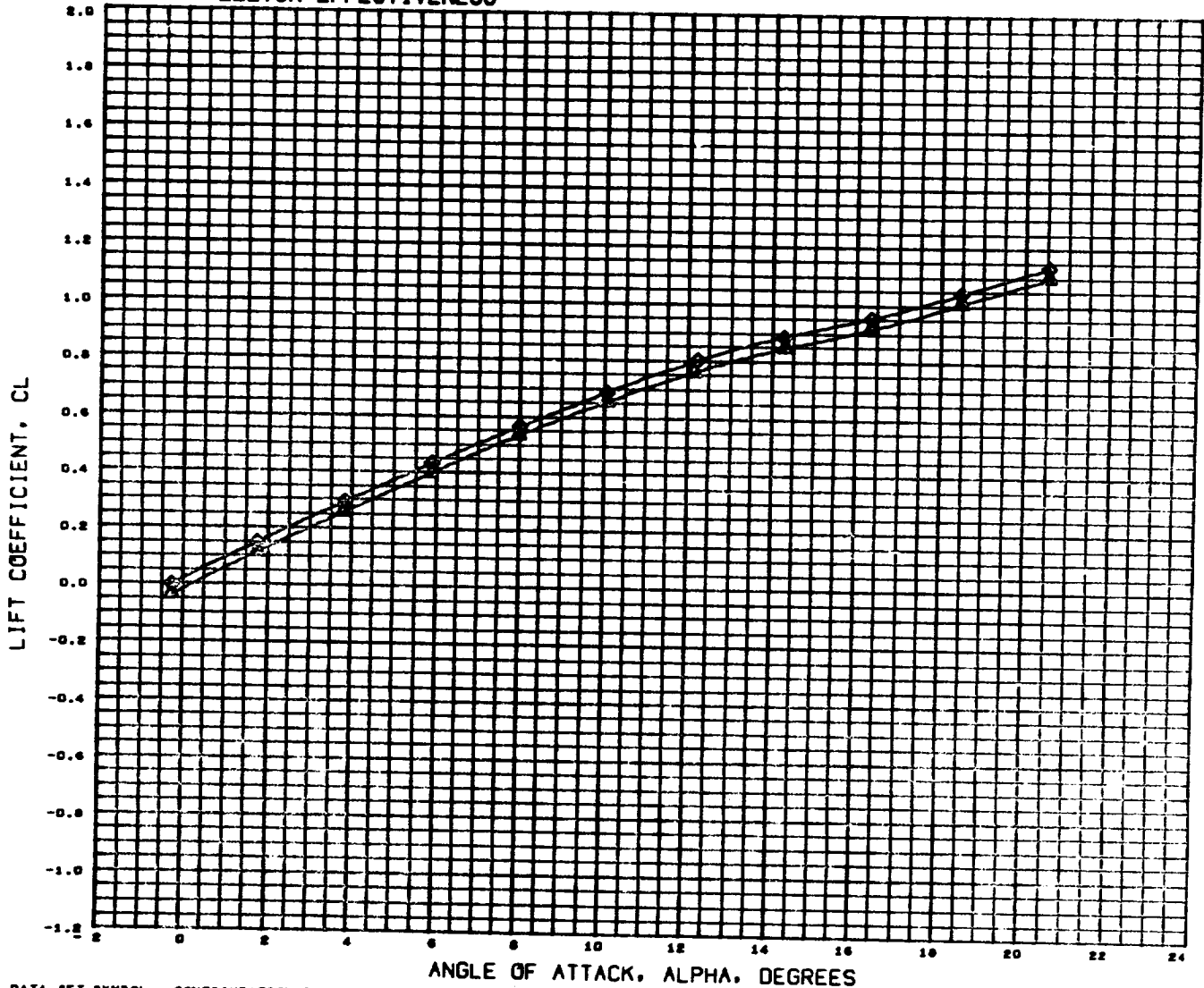
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF	4.6225 50.IN.
(E3412A)	△	H492-MSFC AR11901-1 MODEL 82W6V2	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E3411A)	◇	H492-MSFC AR11901-1 MODEL 82W6V2	0.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3413A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	2.4000 IN.
							YMRP	0.0000 IN.
							ZMRP	0.0000 IN.
							SCALE	0.0025

MACH 1.006

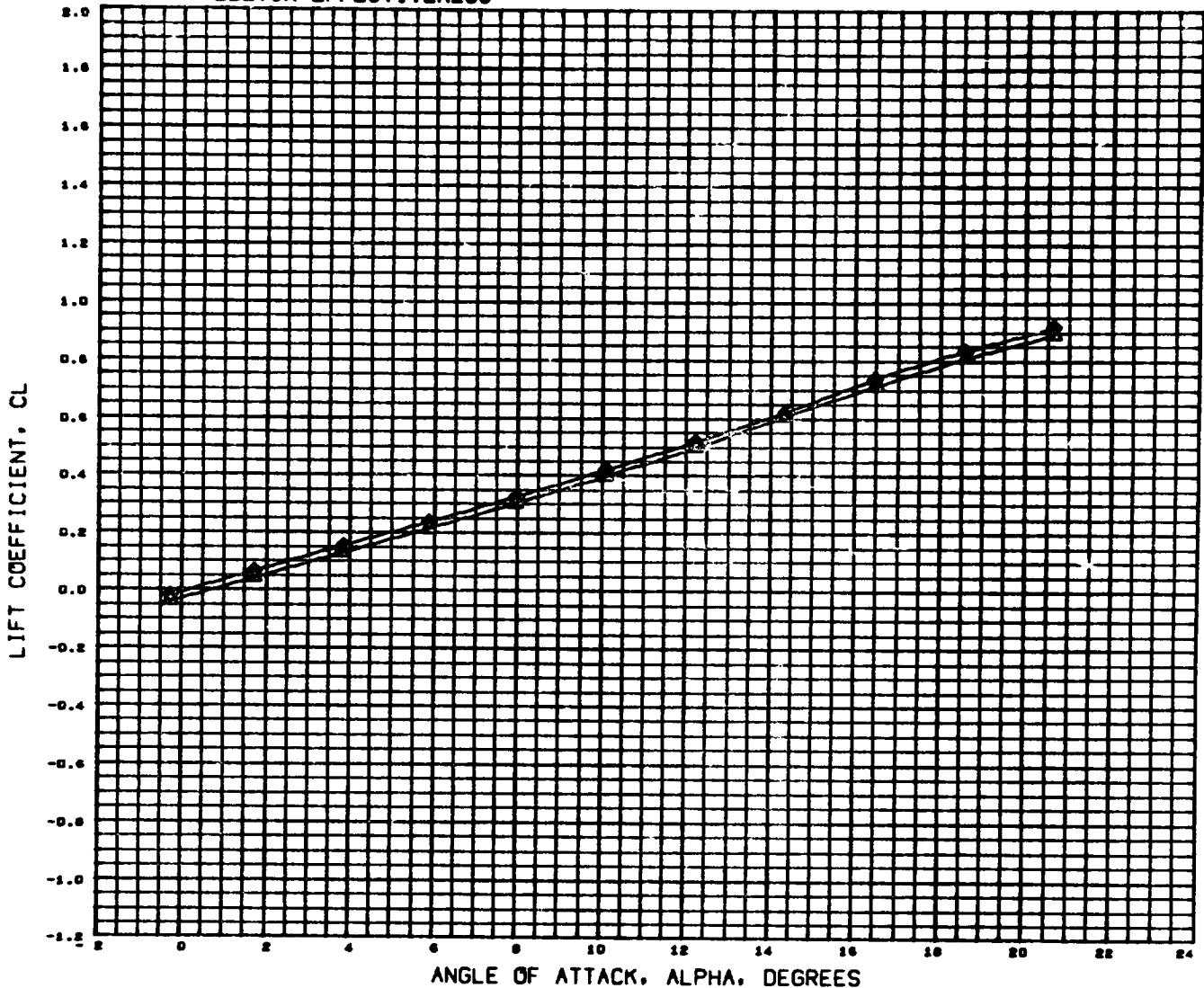
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 30. IN.
(E3412A)	M49Z-MSFC AR11901-1 MODEL 82W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	M49Z-MSFC AR11901-1 MODEL 82W6V2	0.000	0.000	0.000	0.000	SREF 4.3000 IN.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.186

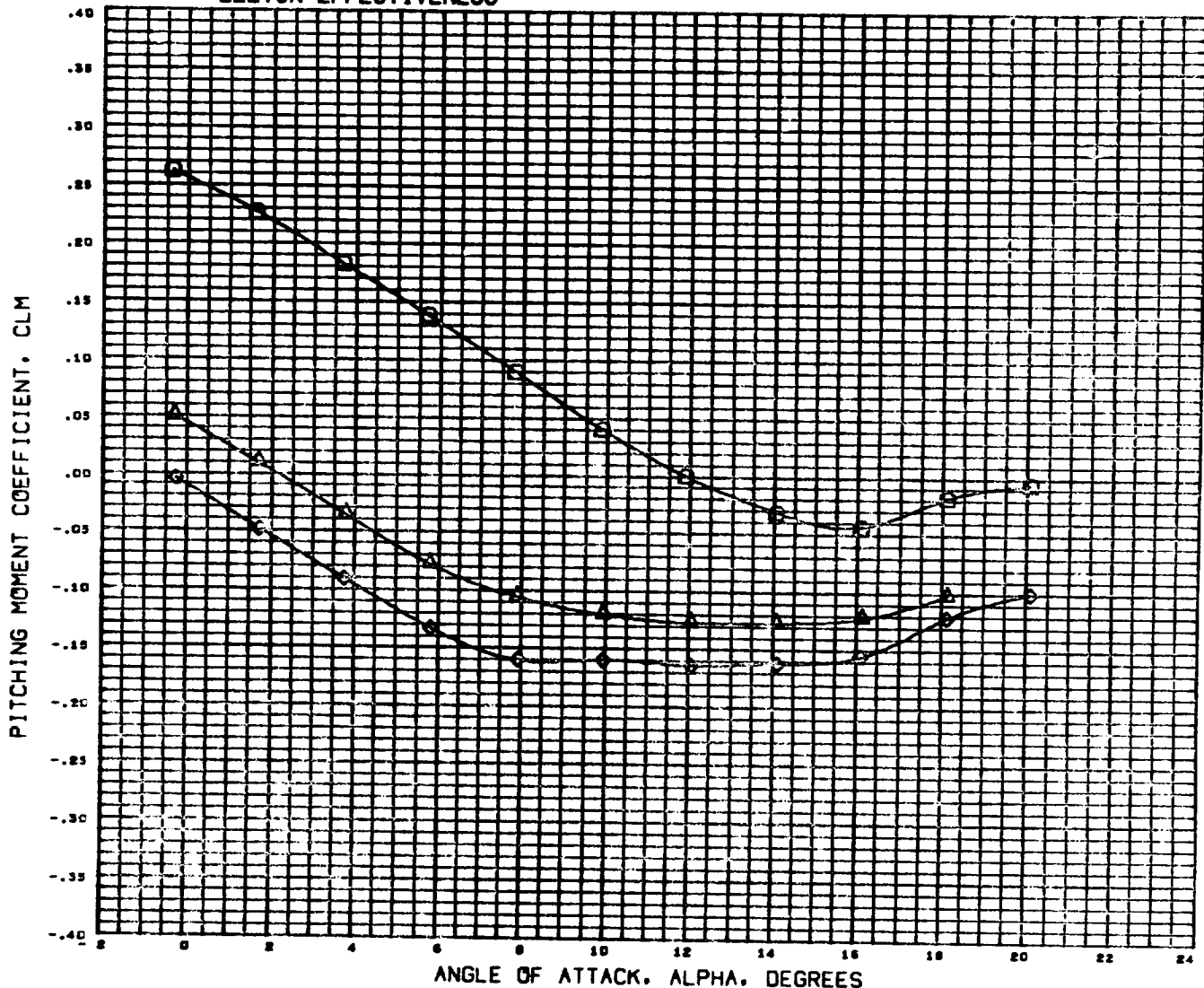
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3454A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF	4.6225 80.IN.
(E3452A)	M49Z-MSFC AR198I-1 MODEL SEWEVS	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E3451A)	M49Z-MSFC AR198I-1 MODEL SEWEVS	0.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3453A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 1.061

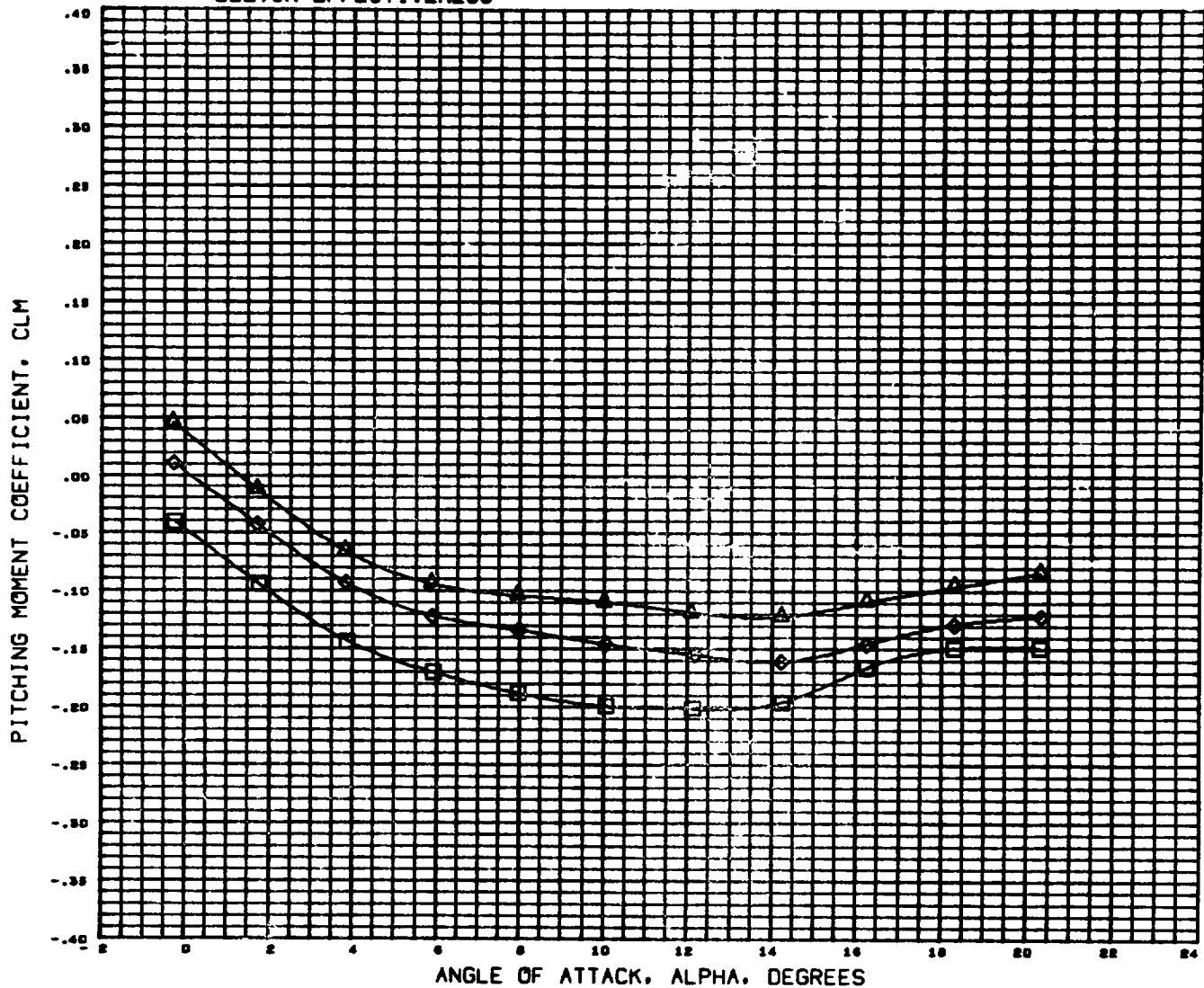
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	N492-MSFC AR11961-1 MODEL B2W6V2	-30.000	-30.000	-30.000	0.000	SREF 4.6225 sq.in.
(E3412A)	N492-MSFC AR11961-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 in.
(E3411A)	N492-MSFC AR11961-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 in.
(E3413A)	N492-MSFC AR11961-1 MODEL B2W6V2	10.000	0.000	5.000	5.000	XMRP 2.4000 in.
						YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 0.600

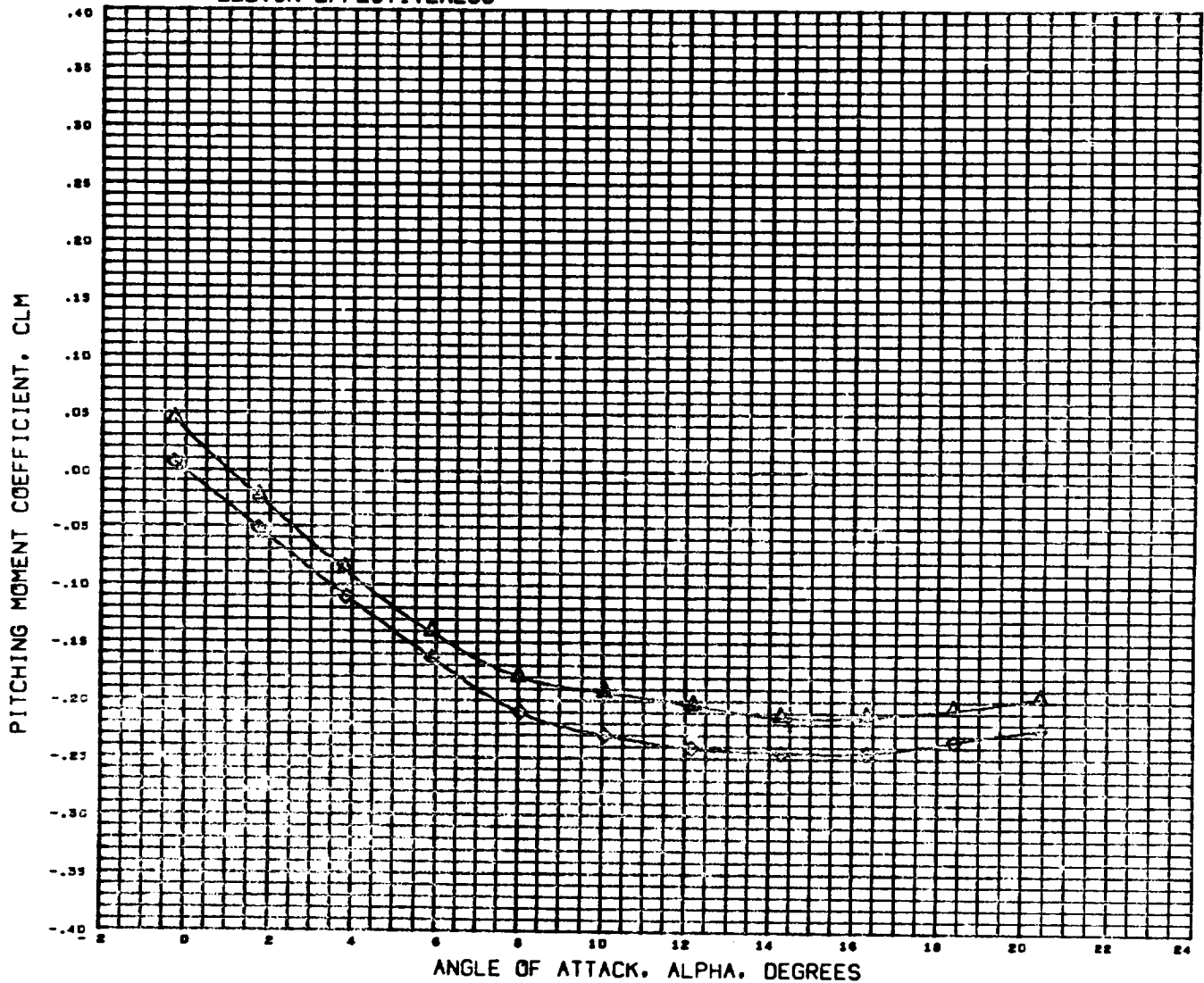
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF 4.6223 88.IN.
(E3412A)	N492-N8FC AR11061-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	N492-N8FC AR11061-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	N492-N8FC AR11061-1 MODEL B2W6V2	10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.903

ELEVON EFFECTIVENESS



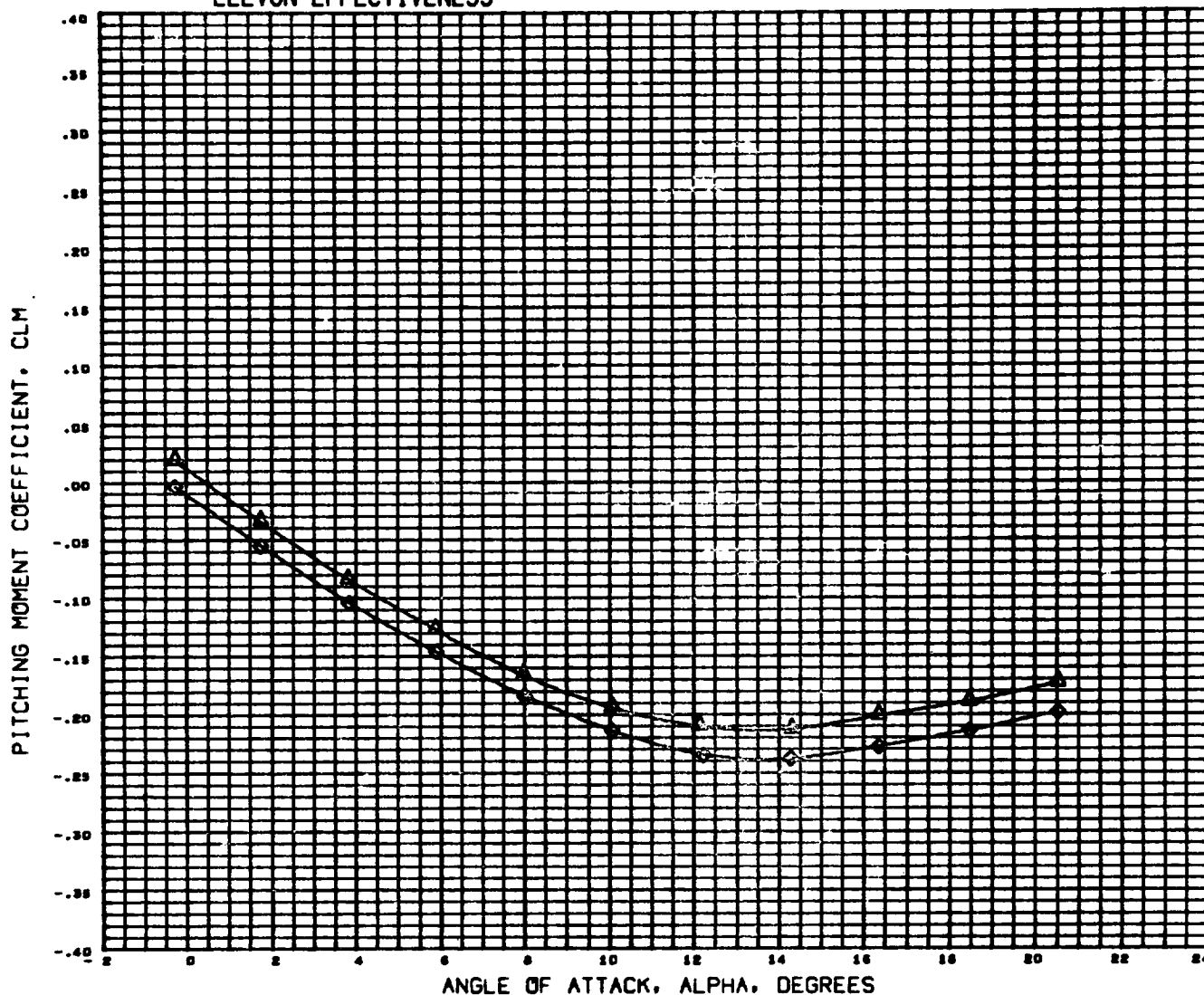
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) W492-N3FC AR11981-1 MODEL B2W6V2
 (E3411A) W492-N3FC AR11981-1 MODEL B2W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
-30.000	-30.000	-30.000	0.000	SREF 4.6225 50. IN.
0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
0.000	0.000	0.000	0.000	BREF 4.3000 IN.
10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
				YNRP 0.0000 IN.
				ZNRP 0.0000 IN.
				SCALE 0.0025

MACH 1.006

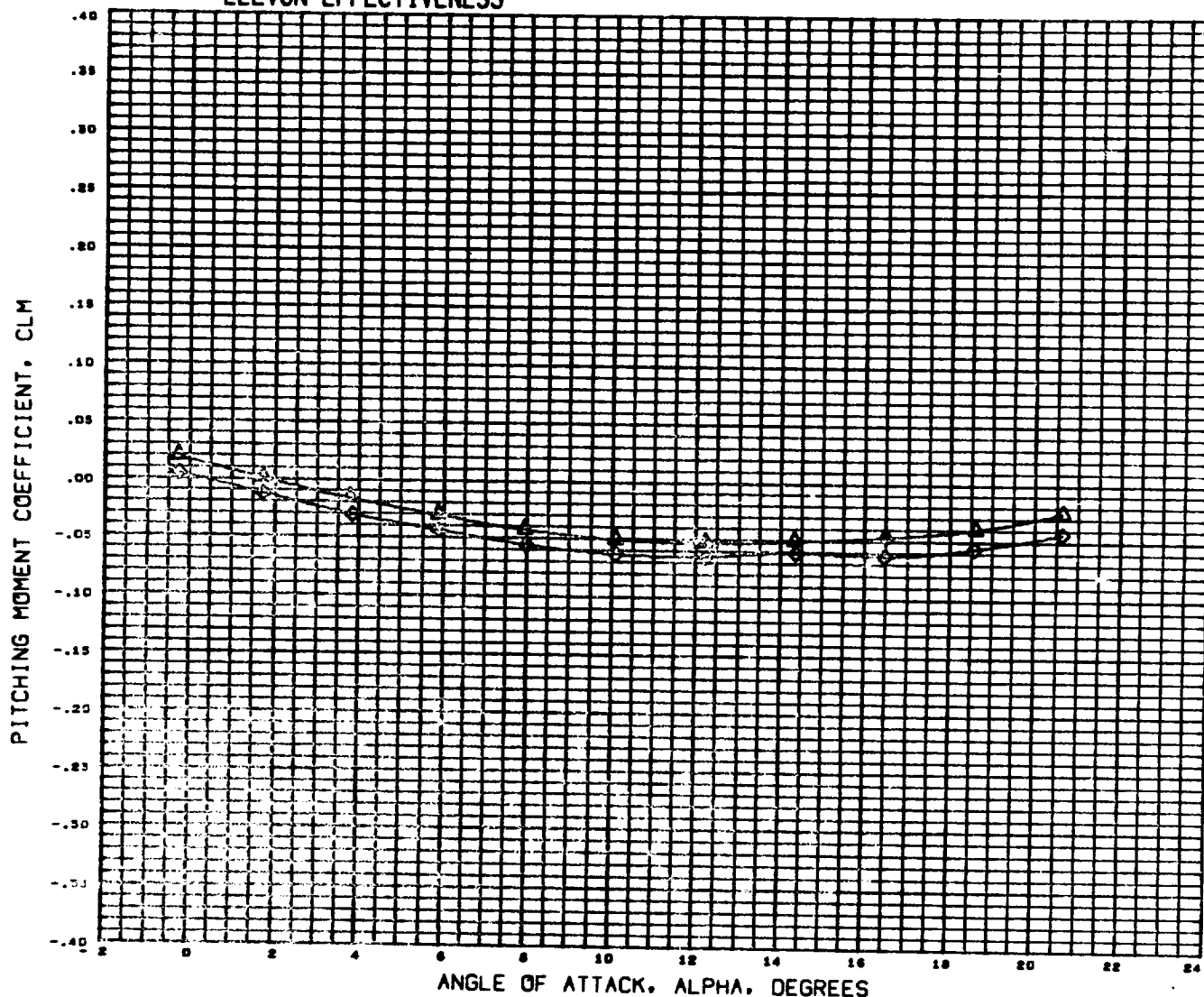
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E9414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF	4.6825 88-IN.
(E9412A)	M492-HSFC AR11981-1 MODEL BZW6V2	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E9413A)	M492-HSFC AR11981-1 MODEL BZW6V2	0.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E9413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	8.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

ELEVON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-NSFC AR11981-1 MODEL B2W8V2
 (E3411A) M492-NSFC AR11931-1 MODEL B2W8V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

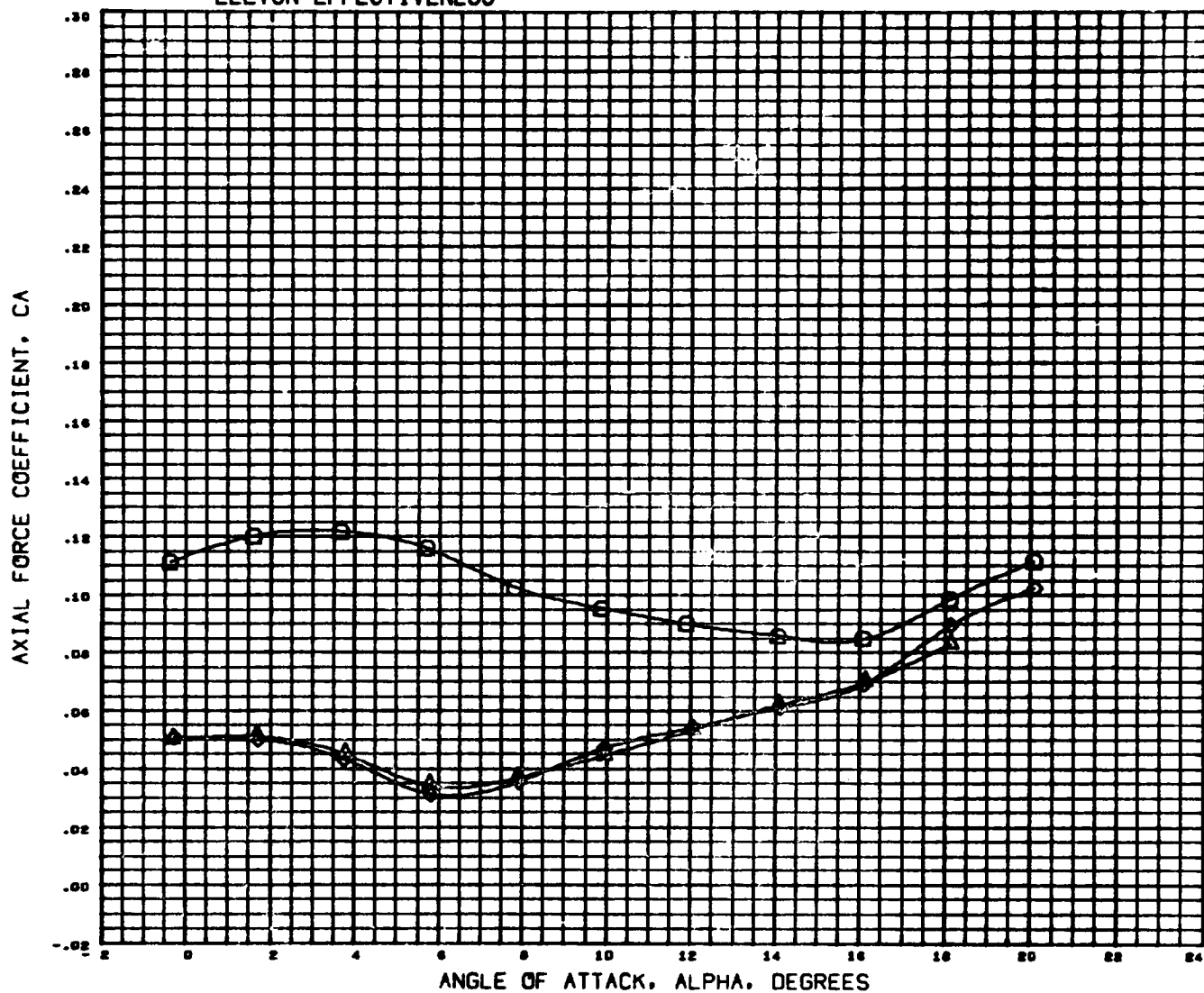
DEL	DER	ELEVTR	AILRON
-30.000	-30.000	-30.000	0.000
0.000	-10.000	-5.000	-5.000
0.000	0.000	0.000	0.000
10.000	0.000	5.000	5.000

REFERENCE INFORMATION

SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.961

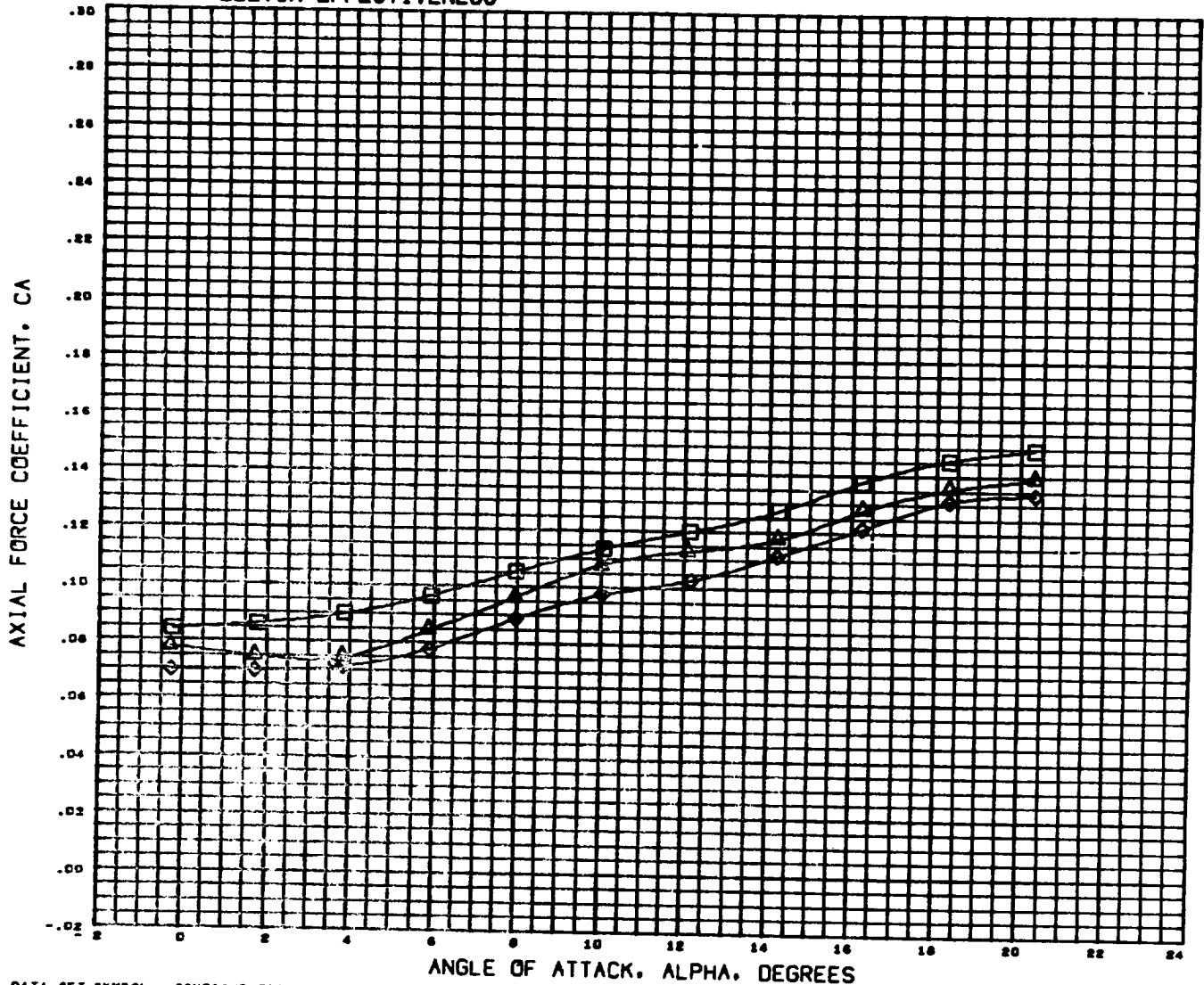
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	M49Z-MBFC AR1198I-1 MODEL BEMVE	-30.000	-30.000	-30.000	0.000	BREF 4.0000 IN.
(E3412A)	M49Z-MBFC AR1198I-1 MODEL BEMVE	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	M49Z-MBFC AR1198I-1 MODEL BEMVE	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XNRP 8.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.600

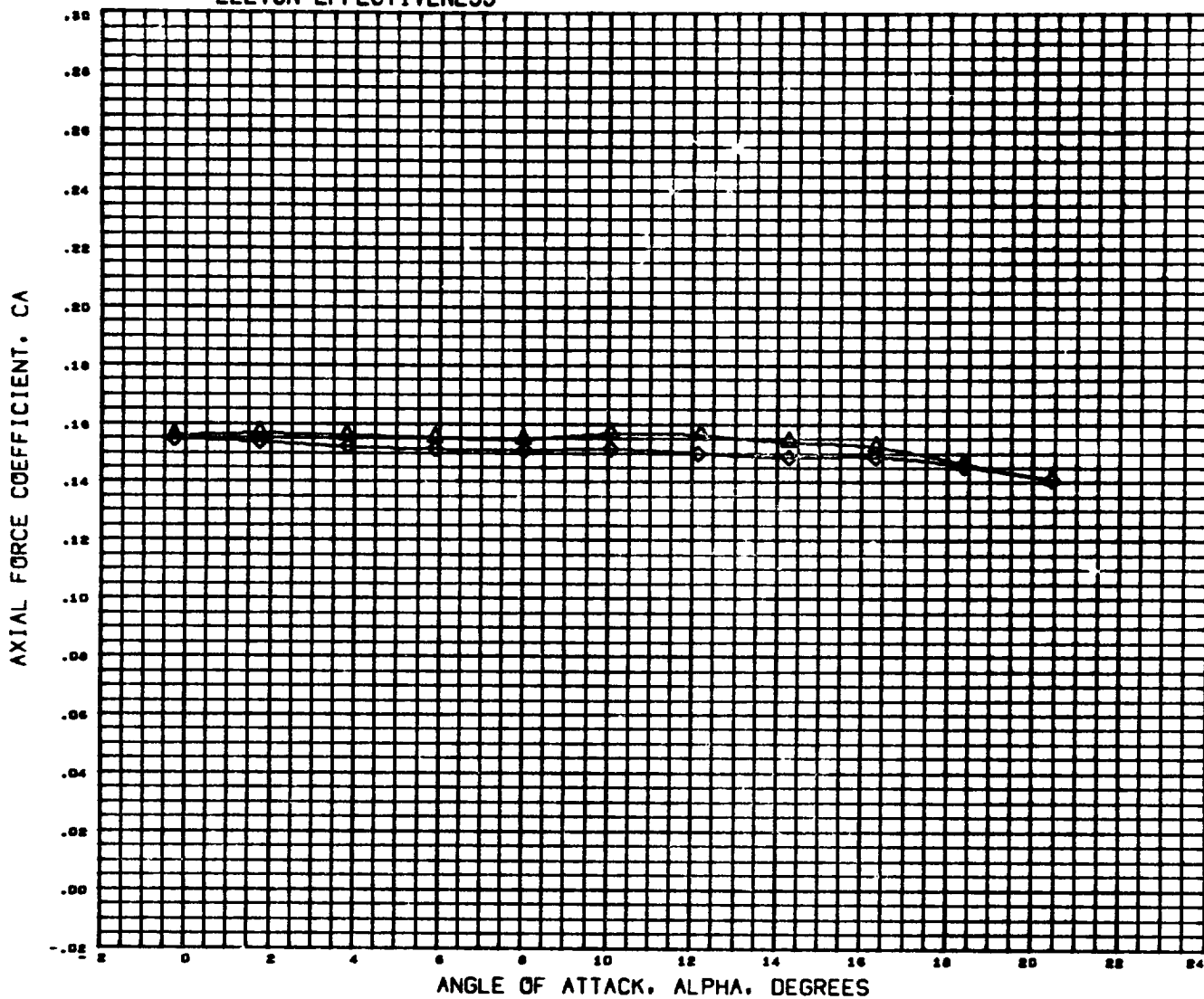
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 88 IN.
(E3412A)	N492-NSFC AR11961-1 MODEL 82W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	N492-NSFC AR11961-1 MODEL 82W6V2	0.000	0.000	0.000	0.000	SREF 4.3000 IN.
(E3413A)	N492-NSFC AR11961-1 MODEL 82W6V2	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.903

ELEVON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-WBFC AR11981-1 MODEL BEMV2
 (E3411A) M492-WBFC AR11981-1 MODEL BEMV2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

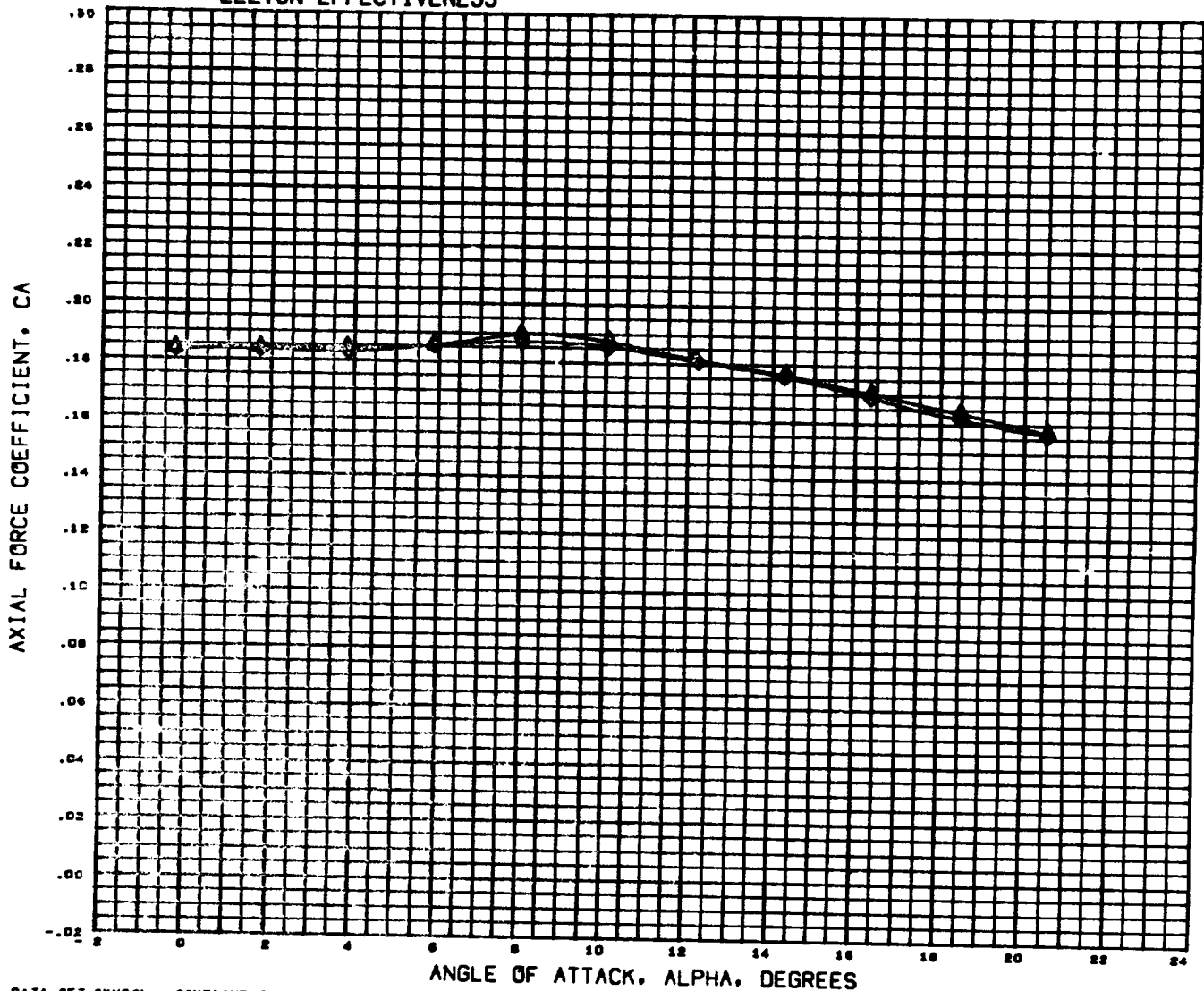
DEL	DER	ELEVTR	AILRON
-30.000	-30.000	-30.000	0.000
0.000	-10.000	-5.000	-5.000
0.000	0.000	0.000	0.000
10.000	0.000	5.000	5.000

REFERENCE INFORMATION

SREF	4.6225	86. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.006

ELEVON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

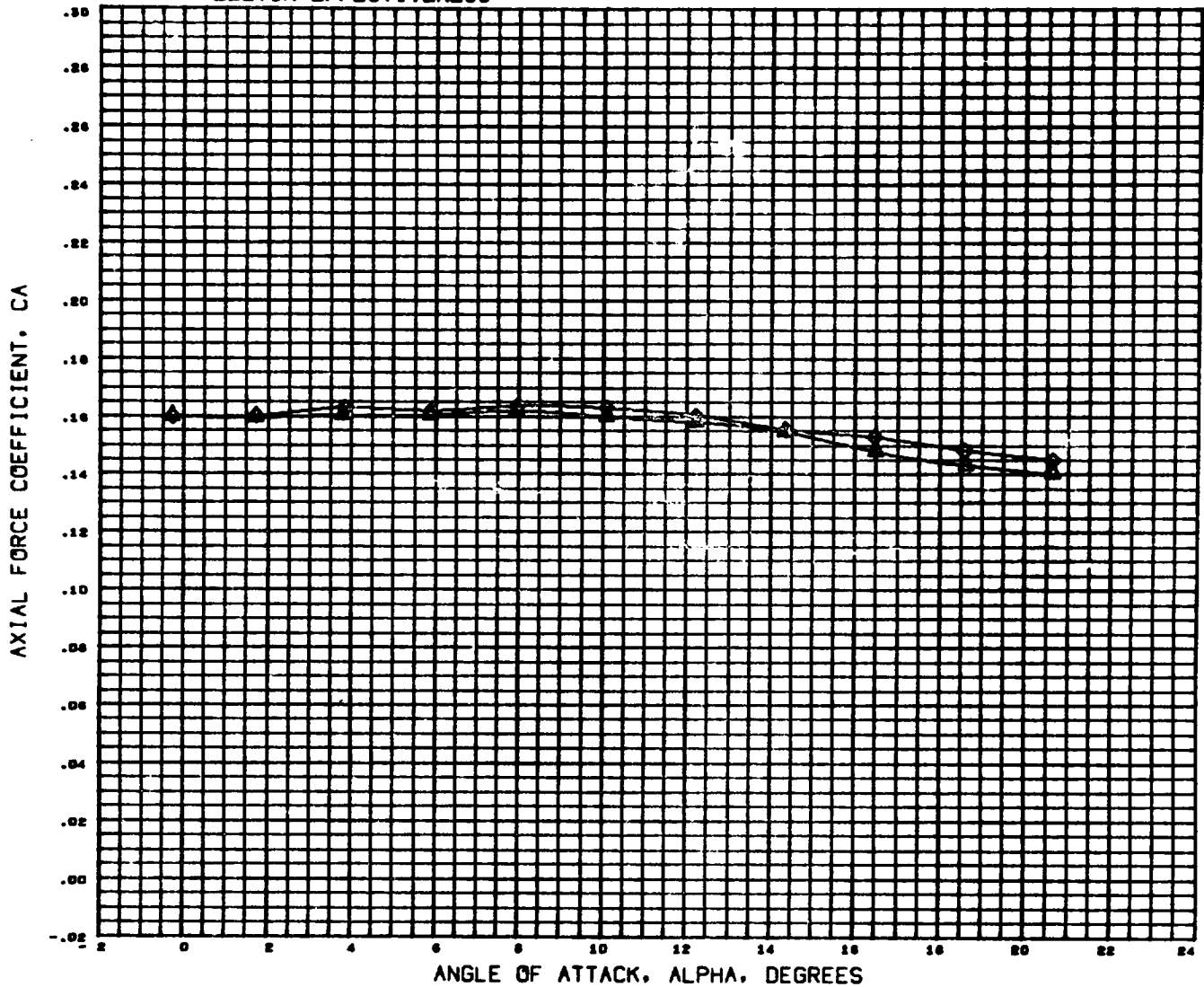
(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-MSFC AR11981-1 MODEL 82W6V2
 (E3411A) M492-MSFC AR11981-1 MODEL 82W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

ANGLE OF ATTACK, ALPHA, DEGREES

DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
-30.000	-30.000	-30.000	0.000	SREF 4.6225 SQ. IN.
0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
0.000	0.000	0.000	0.000	BREF 4.3000 IN.
10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
				YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 1.196

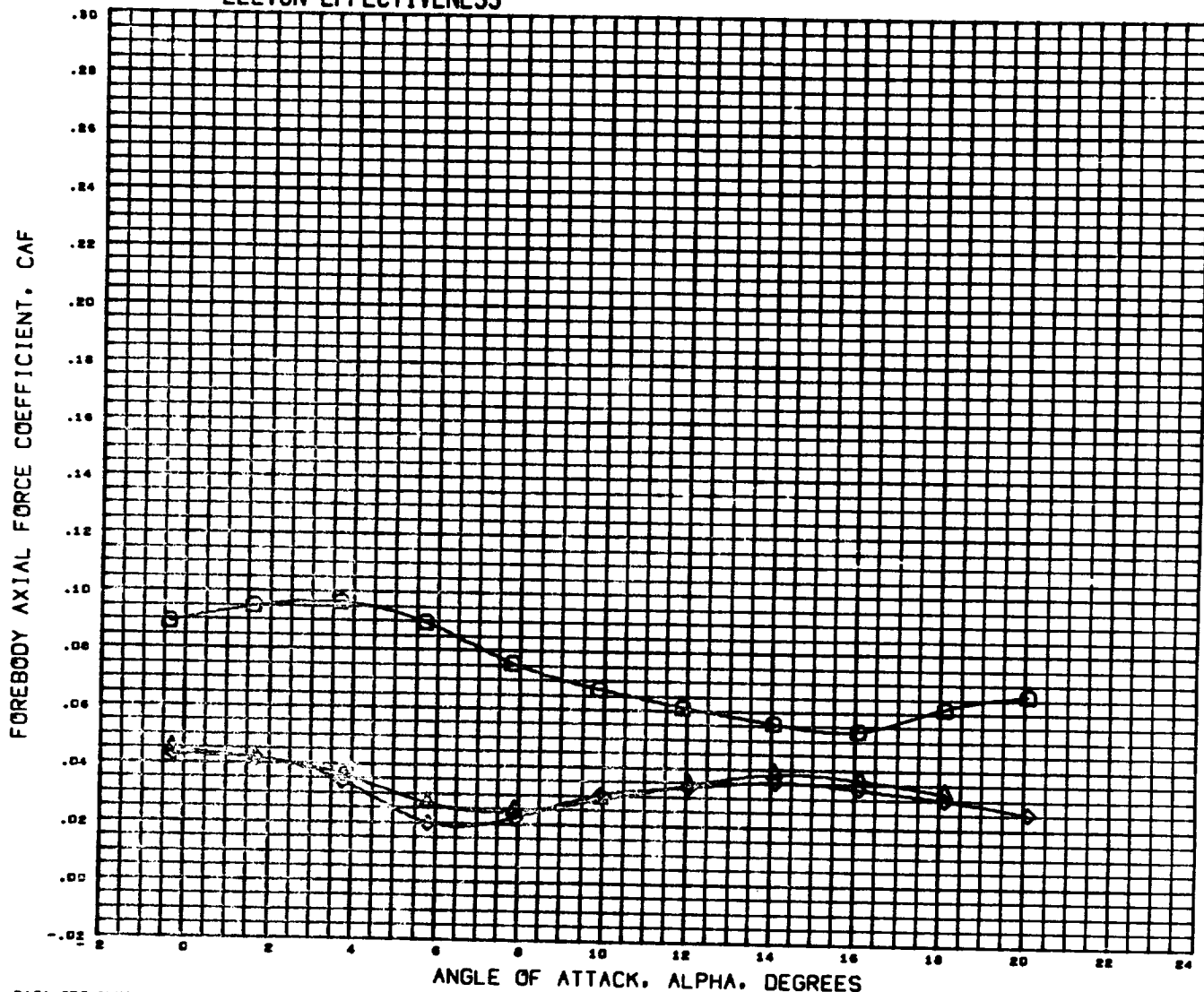
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)		DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF 4.6225 88.IN.
(E3412A)		H492-MSFC AR11991-1 MODEL 82W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)		H492-MSFC AR11991-1 MODEL 82W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
							YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 1.961

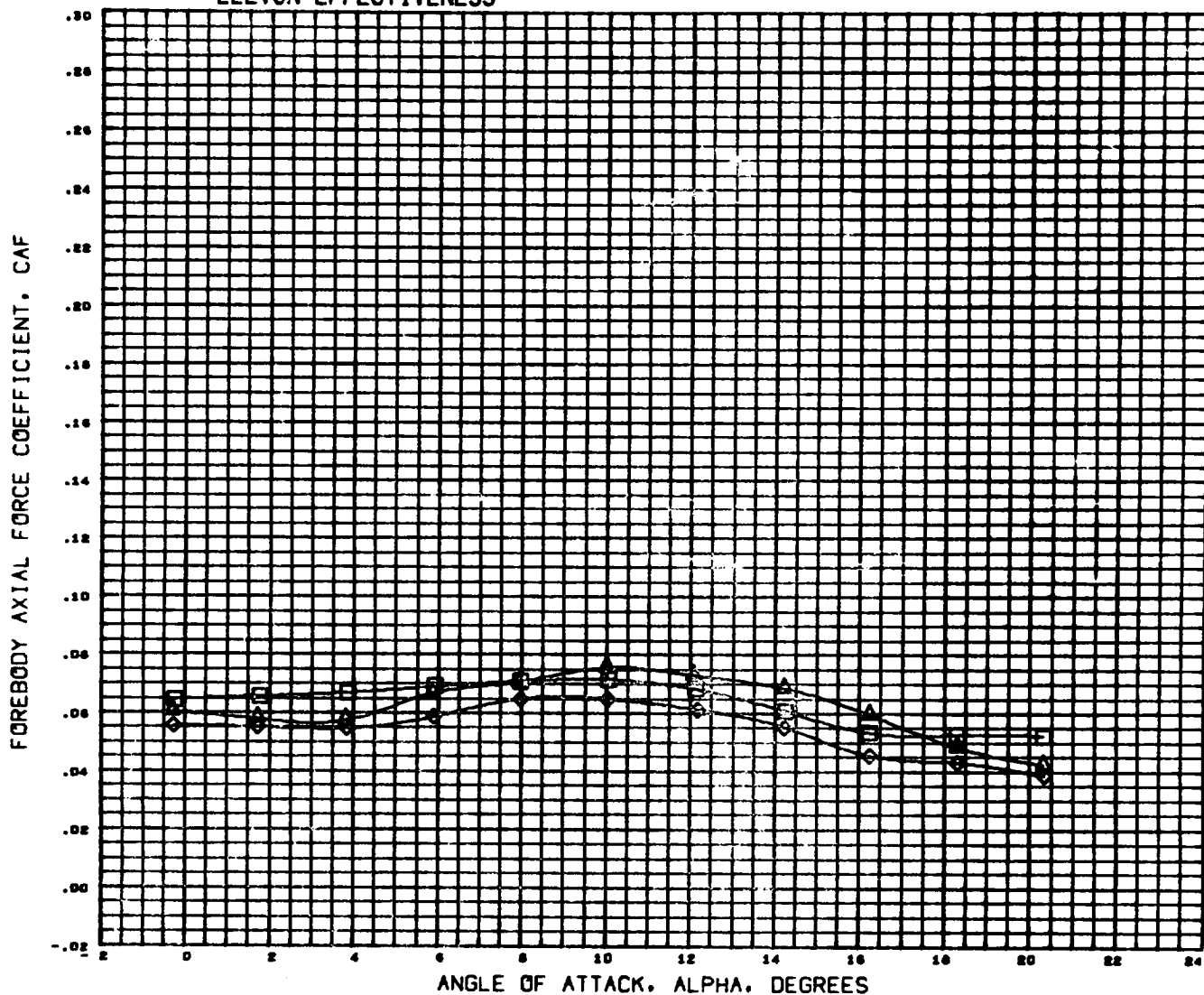
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	M492-NSFC AR11961-1 MODEL B2W6V2	-30.000	-30.000	-30.000	0.000	SREF 4.6225 50.IN.
(E3412A)	M492-NSFC AR11961-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	M492-NSFC AR11961-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	M492-NSFC AR11961-1 MODEL B2W6V2	10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
	DATA NOT AVAILABLE FOR ALL CONDITIONS					YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.800

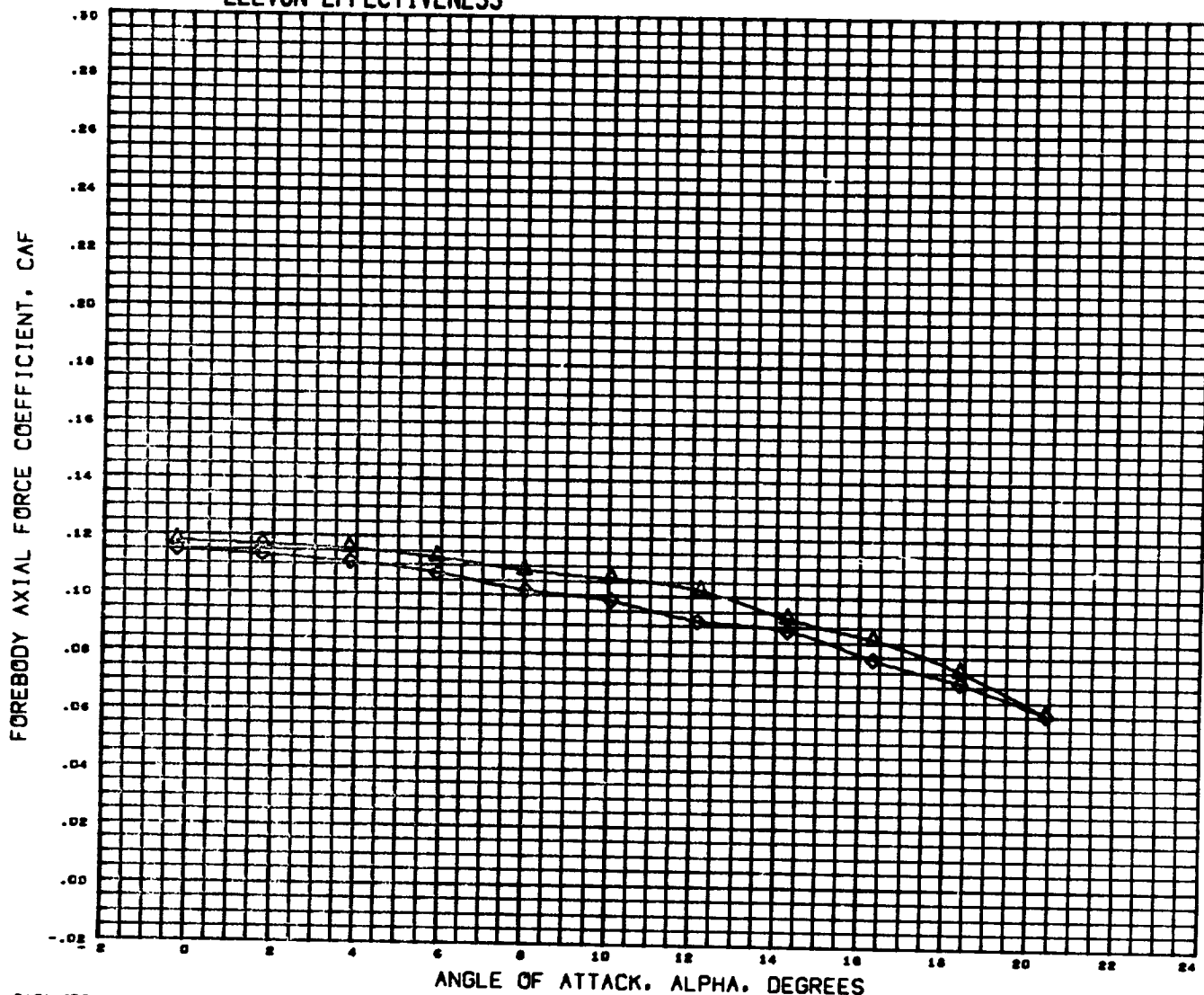
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 sq. in.
(E3412A)	△	N492-MSFC AR11901-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 in.
(E3411A)	◇	N492-MSFC AR11901-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 in.
(E3413A)	□	N492-MSFC AR11901-1 MODEL B2W6V2	10.000	0.000	5.000	5.000	XNRP 2.4000 in.
							YNRP 0.0000 in.
							ZNRP 0.0000 in.
							SCALE 0.0025

MACH 0.903

ELEVON EFFECTIVENESS



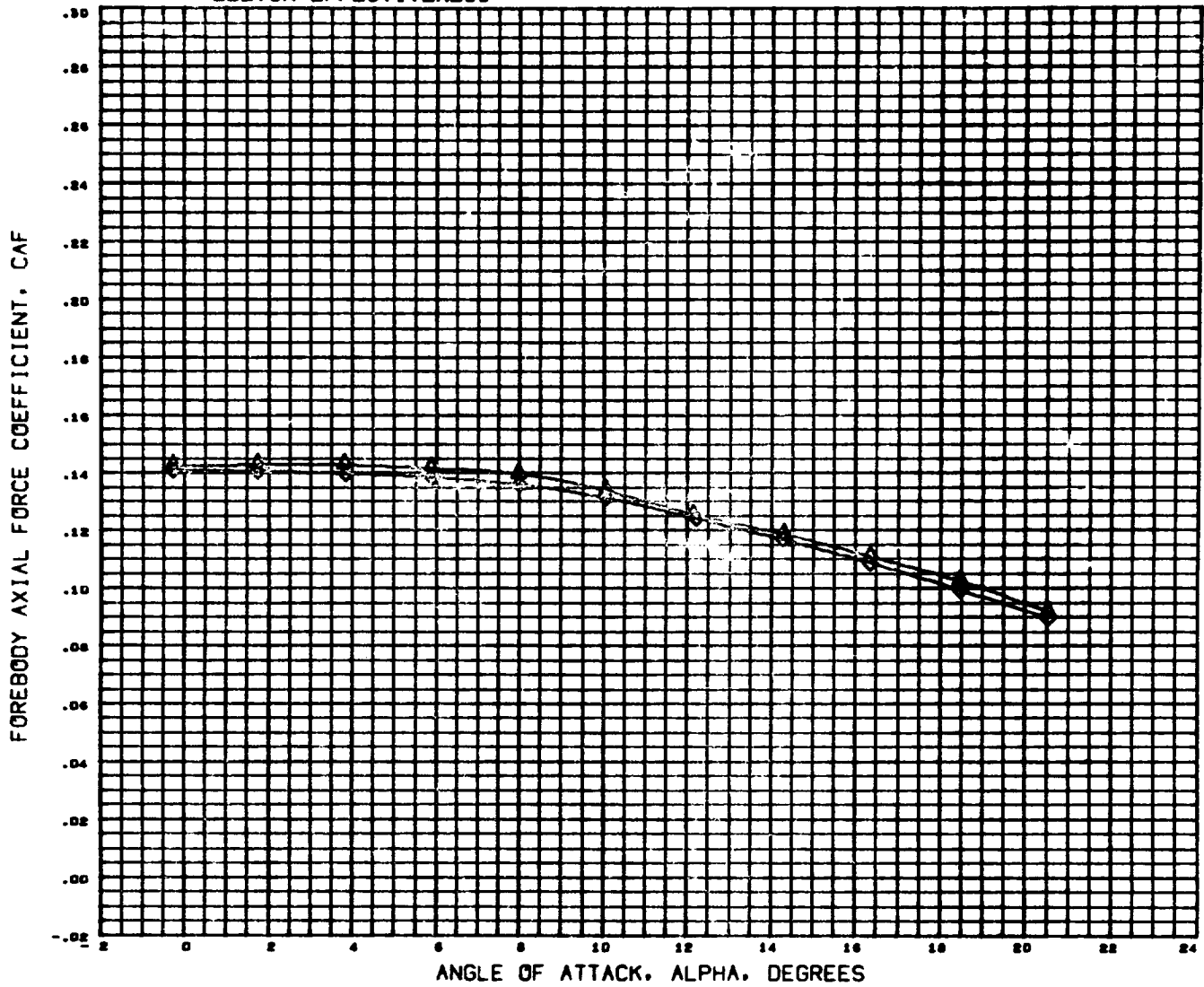
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-NSFC AR11991-1 MODEL 22WVZ
 (E3411A) M492-NSFC AR11991-1 MODEL 22WVZ
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
-30.000	-30.000	-30.000	0.000	BREF 4.8225 86. IN.
0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
0.000	0.000	0.000	0.000	BREF 4.3000 IN.
10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
				YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 1.006

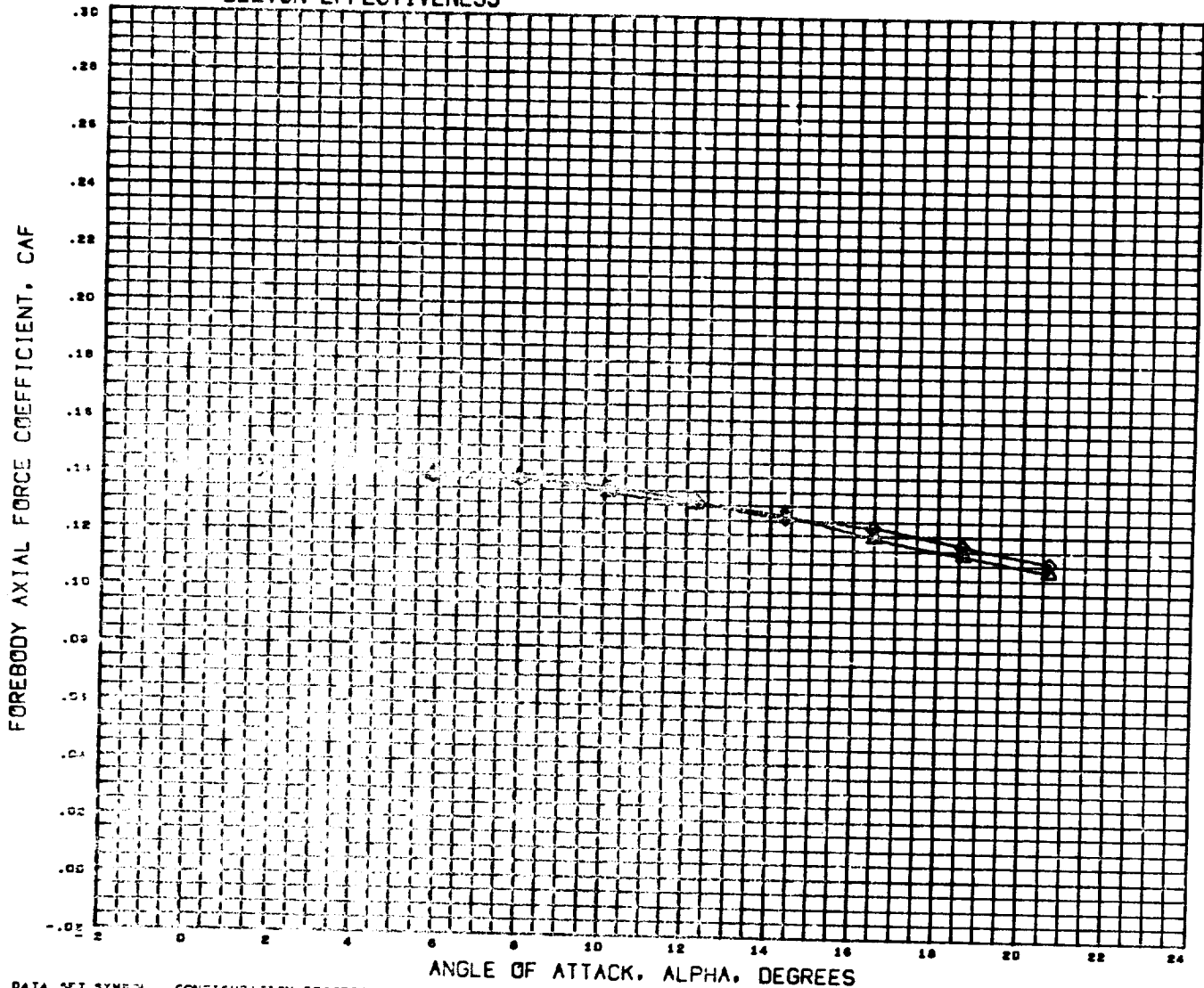
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	BREF	4.0225 80. IN.
(E3412A)	N492-HSFC AR1199I-1 MODEL BZWSVE	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E3411A)	N492-HSFC AR1199I-1 MODEL BZWSVE	0.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

ELEVON EFFECTIVENESS



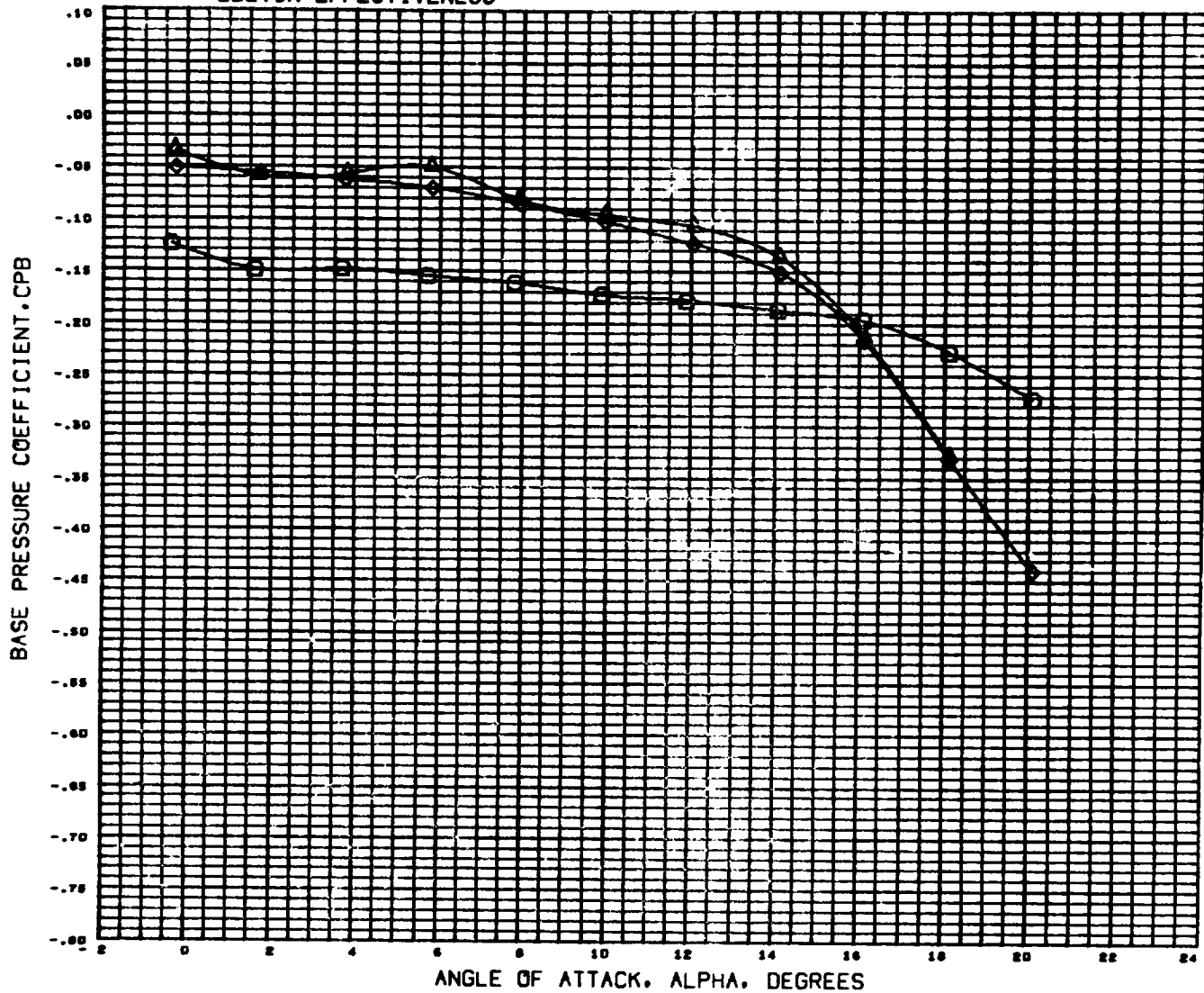
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-MSFC AR11901-1 MODEL 82W6V2
 (E3411A) M492-MSFC AR11901-1 MODEL 82W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.961

DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
-30.000	-30.000	-30.000	0.000	SREF	4.6225 30-IN.
0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
0.000	0.000	0.000	0.000	BREF	4.3000 IN.
10.000	0.000	5.000	5.000	XMRP	2.4000 IN.
				YMRP	0.0000 IN.
				ZMRP	0.0000 IN.
				SCALE	0.0025

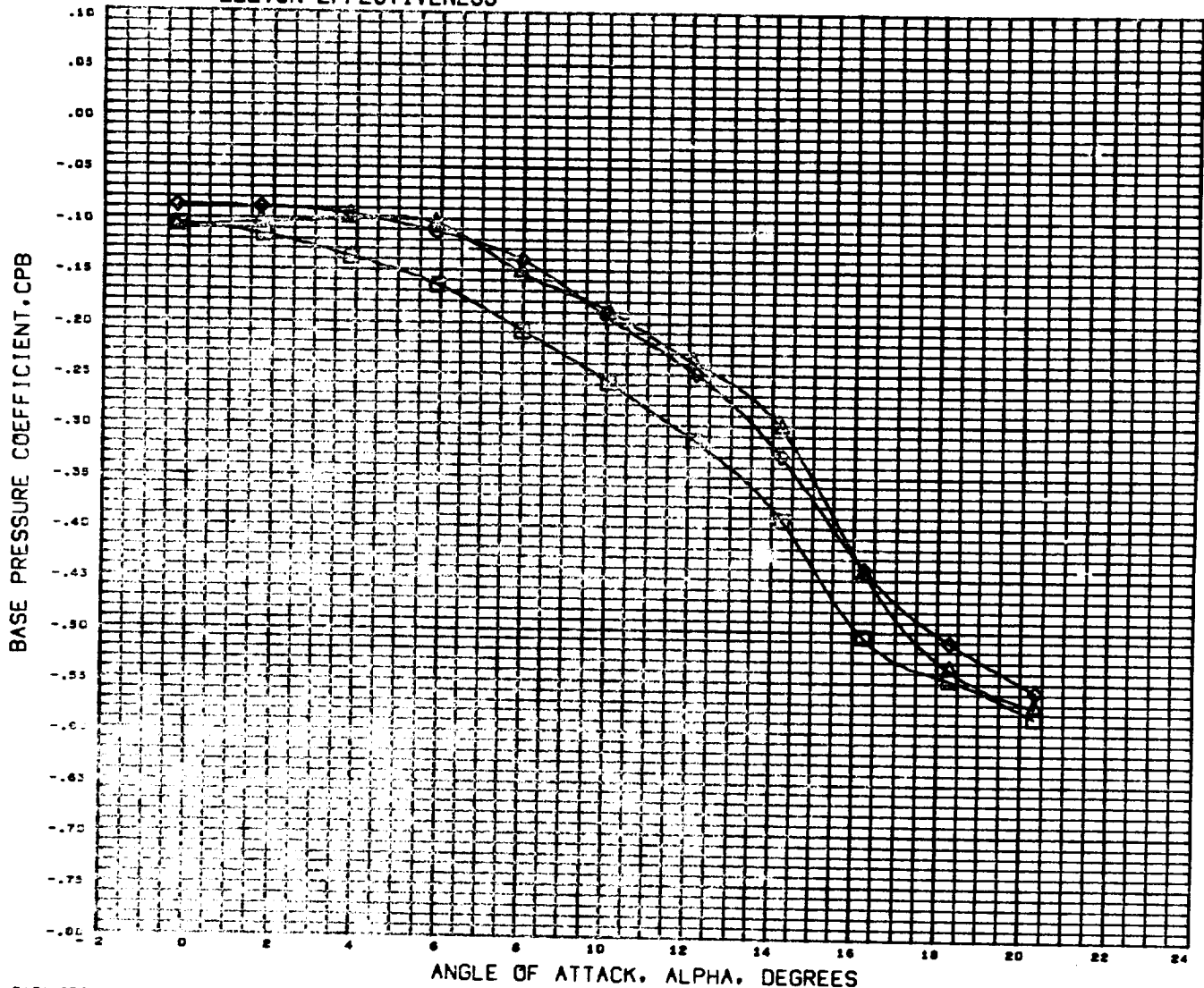
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	N492-MSFC AR11001-1 MODEL SZWSV2	-30.000	-30.000	-30.000	0.000	BREF 4.6225 50.IN.
(E3412A)	N492-MSFC AR11001-1 MODEL SZWSV2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	N492-MSFC AR11001-1 MODEL SZWSV2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	N492-MSFC AR11001-1 MODEL SZWSV2	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
	DATA NOT AVAILABLE FOR ALL CONDITIONS					YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.000

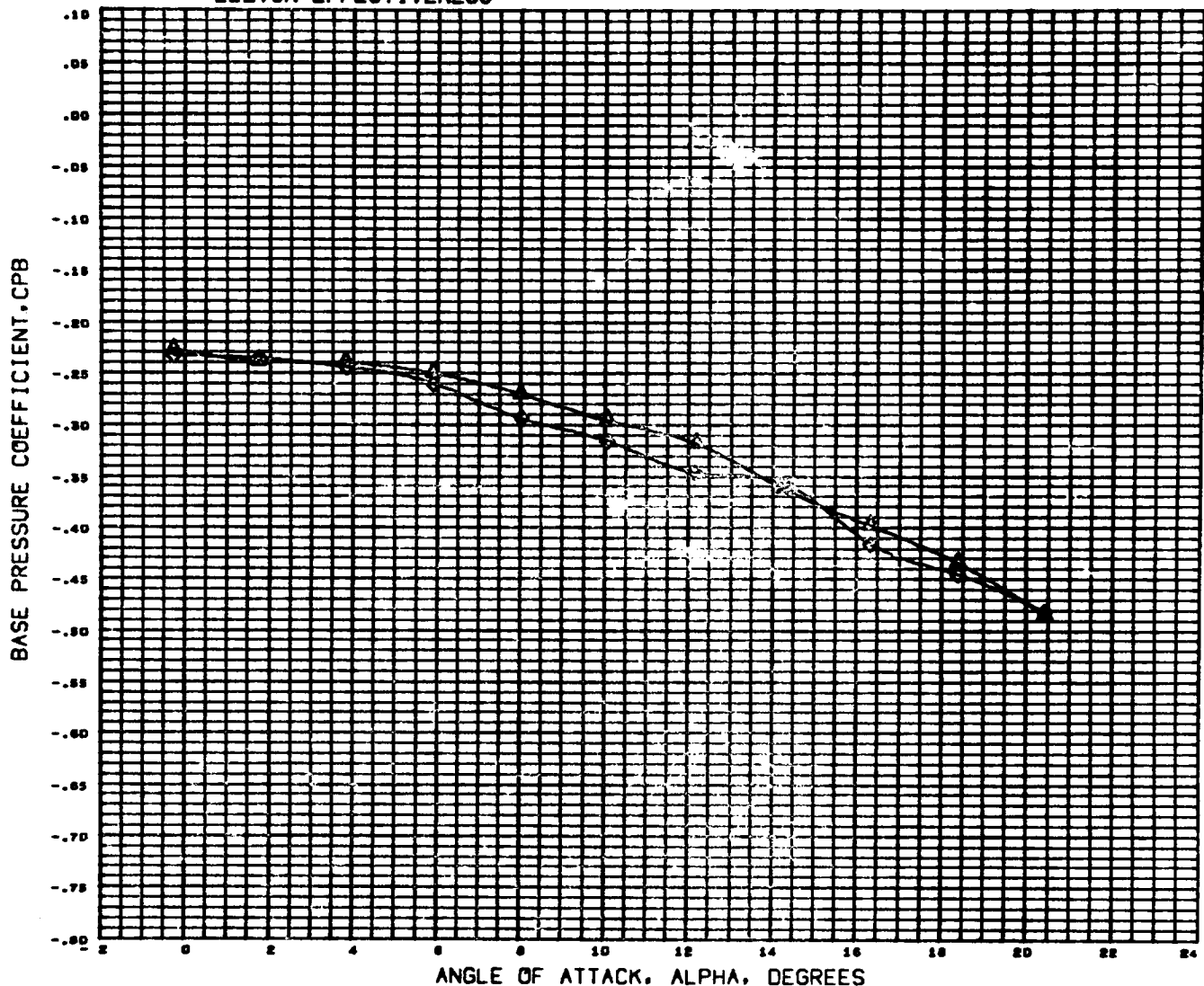
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 58. IN.
(E3412A)	△	N492-M3FC AR11981-1 MODEL 82W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	◇	N492-M3FC AR11981-1 MODEL 82W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	□	N492-M3FC AR11981-1 MODEL 82W6V2	10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
							YNRP 0.0000 IN.
							ZNRP 0.0000 IN.
							SCALE 0.0025

MACH 0.903

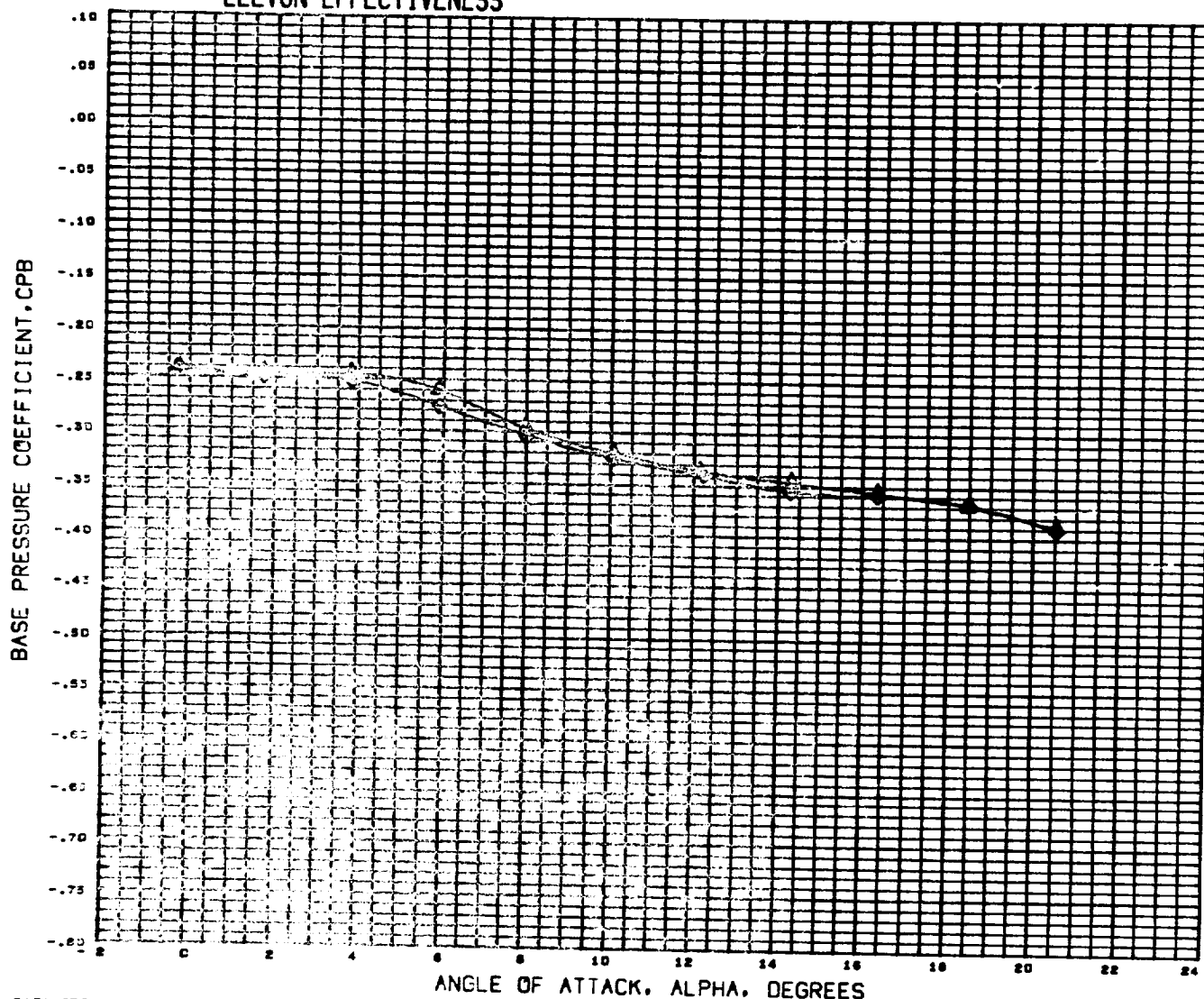
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF	4.6225 88. IN.
(E3412A)	○	N492-N8FC AR11981-1 MODEL SENSV2	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E3411A)	○	N492-N8FC AR11981-1 MODEL SENSV2	0.000	0.000	0.000	0.000	SREF	4.3000 IN.
(E3413A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XNRP	2.4000 IN.
							YNRP	0.0000 IN.
							ZNRP	0.0000 IN.
							SCALE	0.0025

NACH 1.006

ELEVON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-HSFC AR11981-1 MODEL 82W6V2
 (E3411A) M492-HSFC AR11981-1 MODEL 82W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

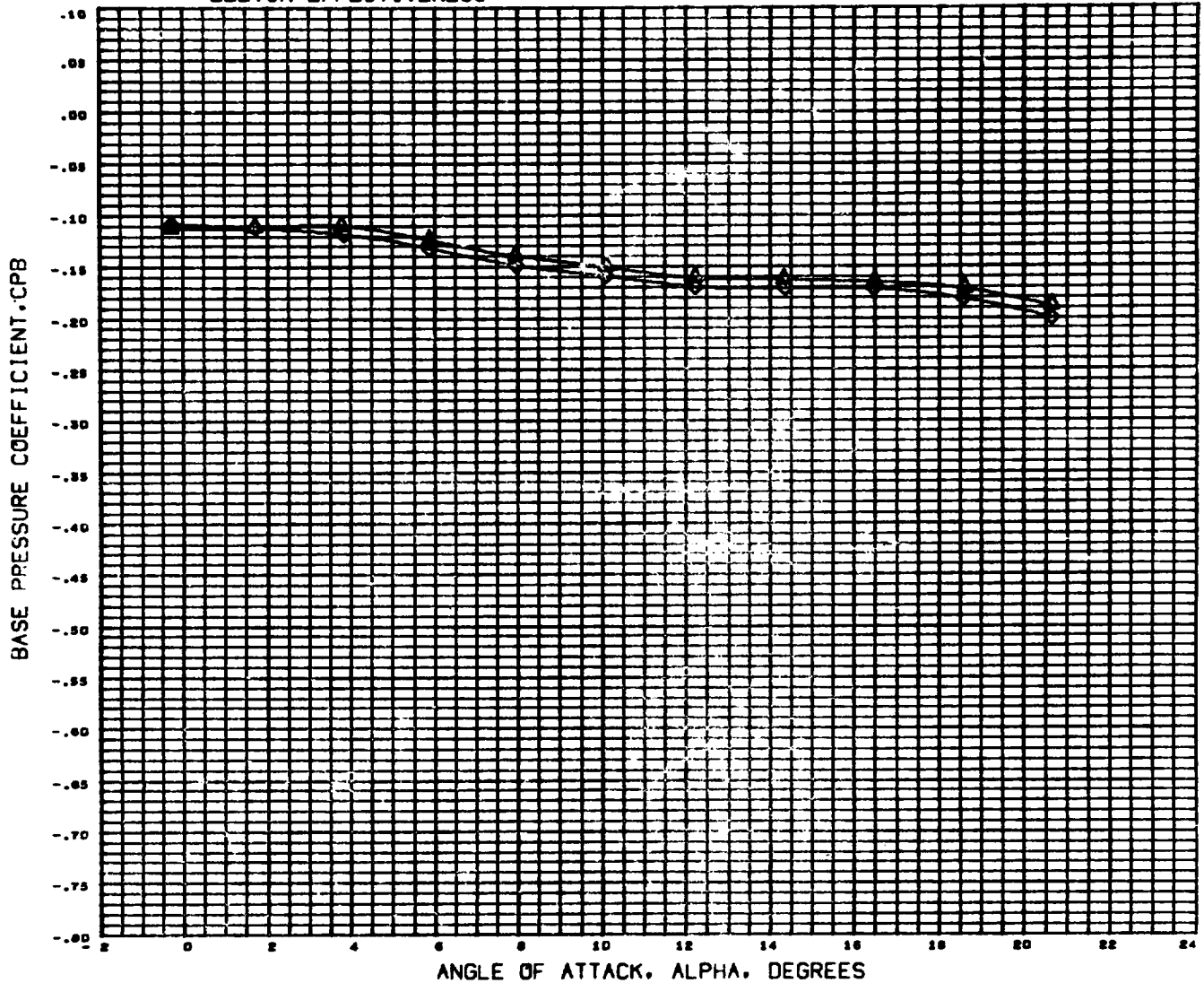
DEL	DER	ELEVTR	AILRON
-30.000	-30.000	-30.000	0.000
0.000	-10.000	-5.000	-5.000
0.000	0.000	0.000	0.000
10.000	0.000	5.000	5.000

REFERENCE INFORMATION

SREF	4.6223	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YNRP	0.0000	IN.
ZNRP	0.0000	IN.
SCALE	0.0025	

MACH 1.196

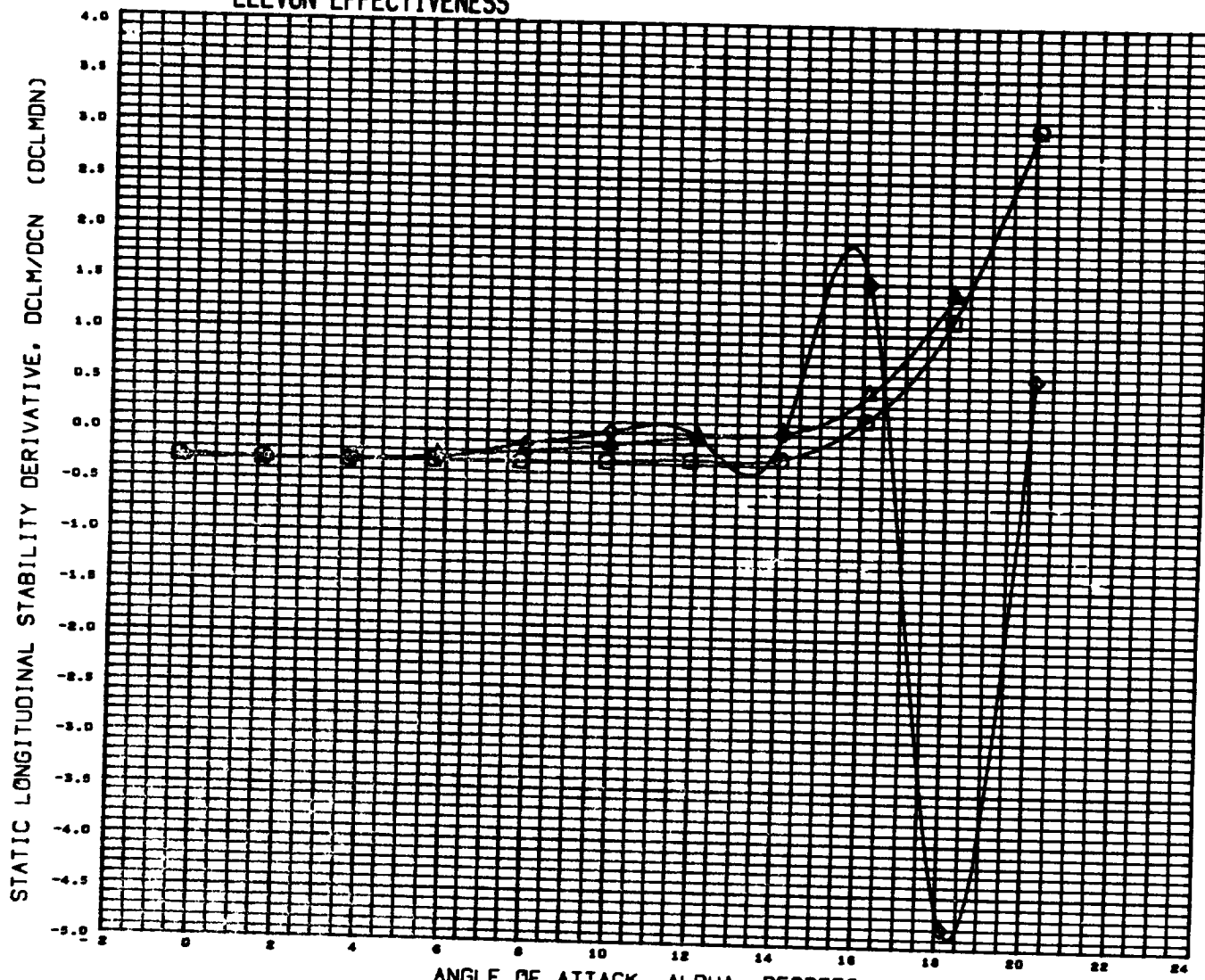
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF	4.6225 88.1N.
(E3412A)	M492-MSFC AR11981-1 MODEL BZMBV2	0.000	-10.000	-5.000	-5.000	LREF	4.8000 1N.
(E3411A)	M492-MSFC AR11981-1 MODEL BZMBV2	0.000	0.000	0.000	0.000	BREF	4.8000 1N.
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	2.4000 1N.
						YMRP	0.0000 1N.
						ZMRP	0.0000 1N.
						SCALE	0.0025

MACH 1.961

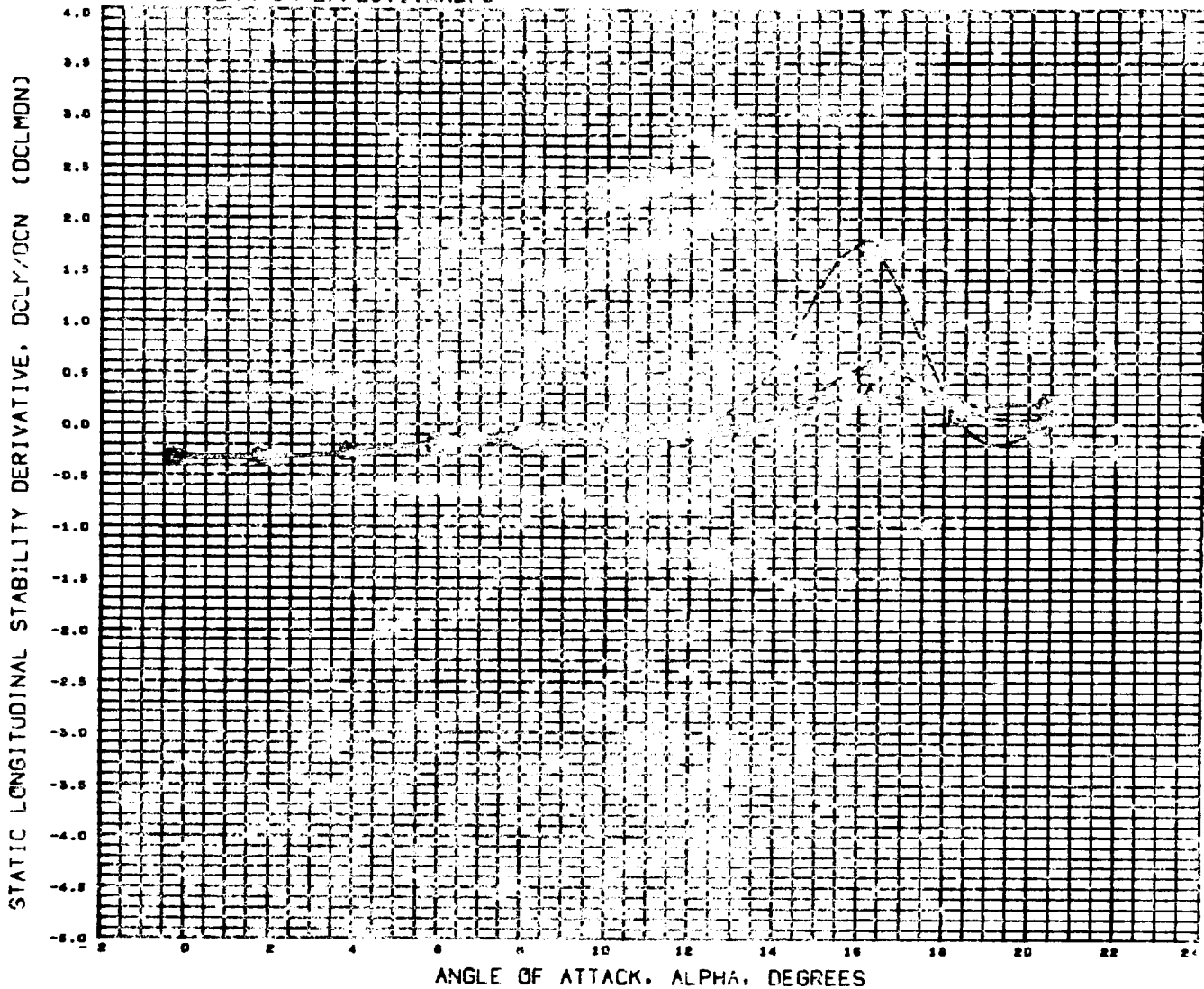
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	N492-NBFC AR11991-1 MODEL B2W6V2	-30.000	-30.000	-30.000	0.000	SREF 4.0225 80 IN.
(E3412A)	N492-NBFC AR11991-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	N492-NBFC AR11991-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	SREF 4.3000 IN.
(E3413A)	N492-NBFC AR11991-1 MODEL B2W6V2	10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
	DATA NOT AVAILABLE FOR ALL CONDITIONS					YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.600

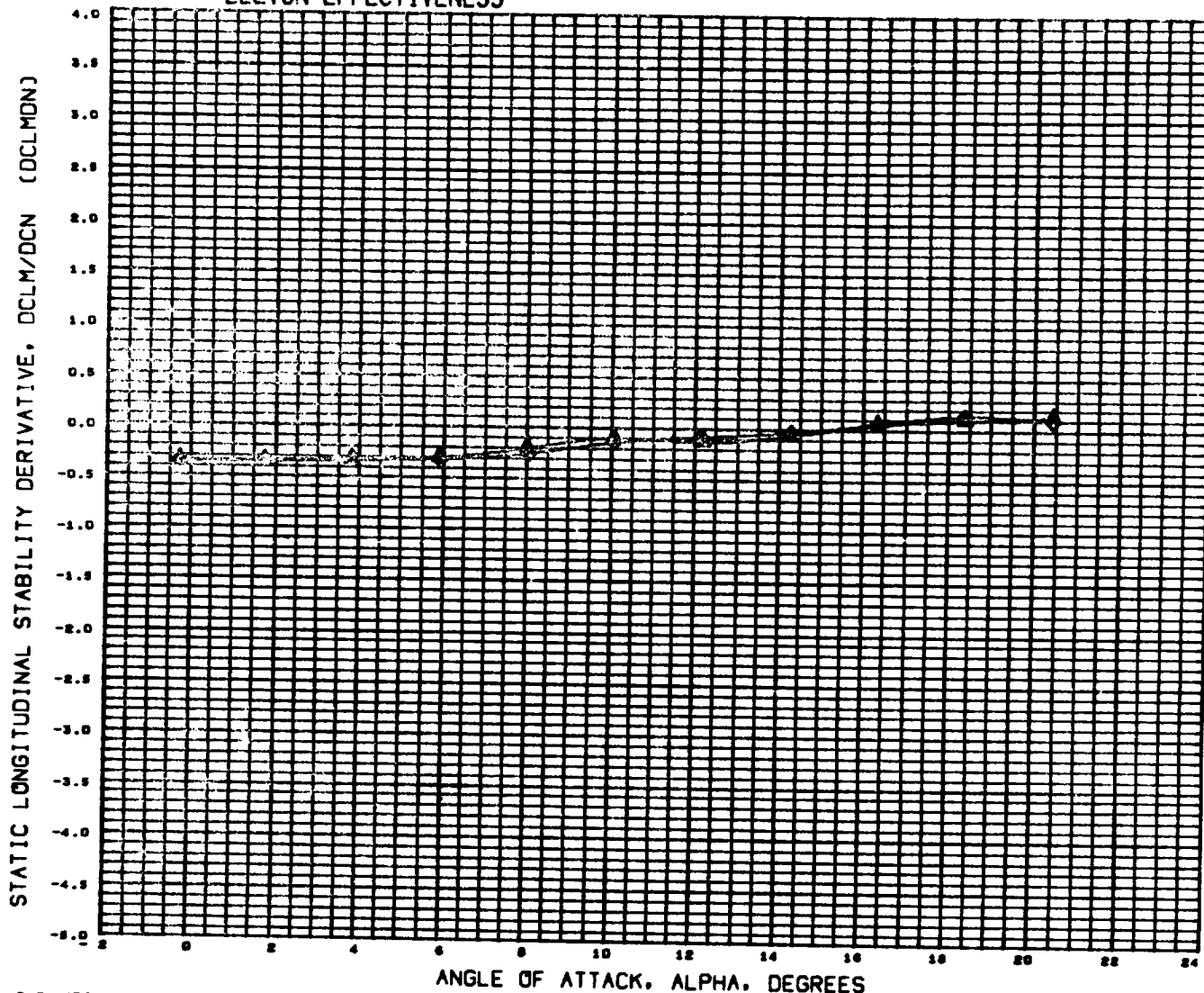
ELEVON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 56.10.
(E3412A)	M49E-MSFC AR119A1-1 MODEL BZW6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	M49E-MSFC AR119A1-1 MODEL BZW6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	M49E-MSFC AR119A1-1 MODEL BZW6V2	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.903

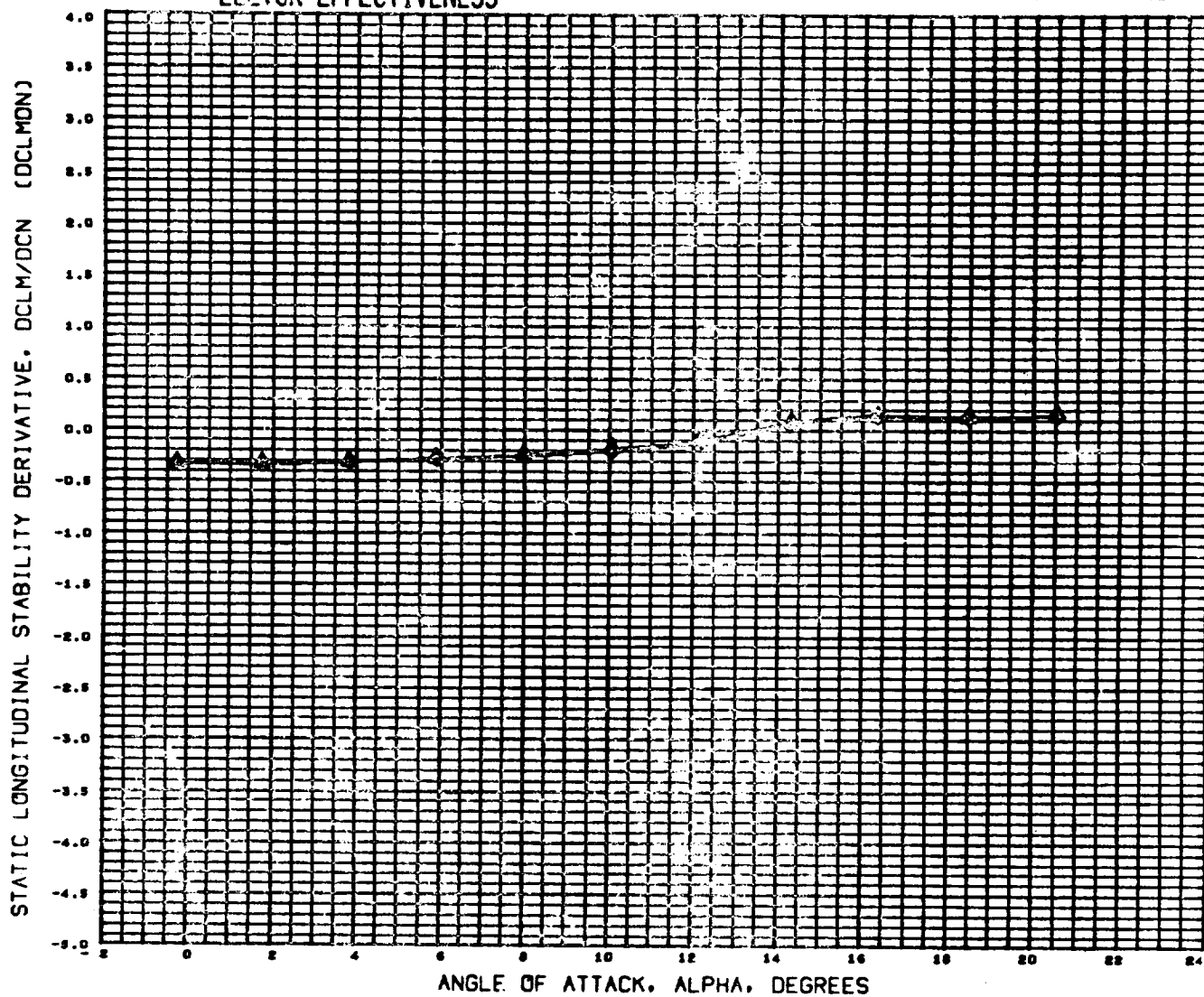
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E3414A)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF 4.6225 36. IN.
(E3412A)	◇	N492-HSFC AR11981-1 MODEL B2W6V2	0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
(E3411A)	◇	N492-HSFC AR11981-1 MODEL B2W6V2	0.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3413A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP 2.4000 IN.
							YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 1.006

ELEVON EFFECTIVENESS



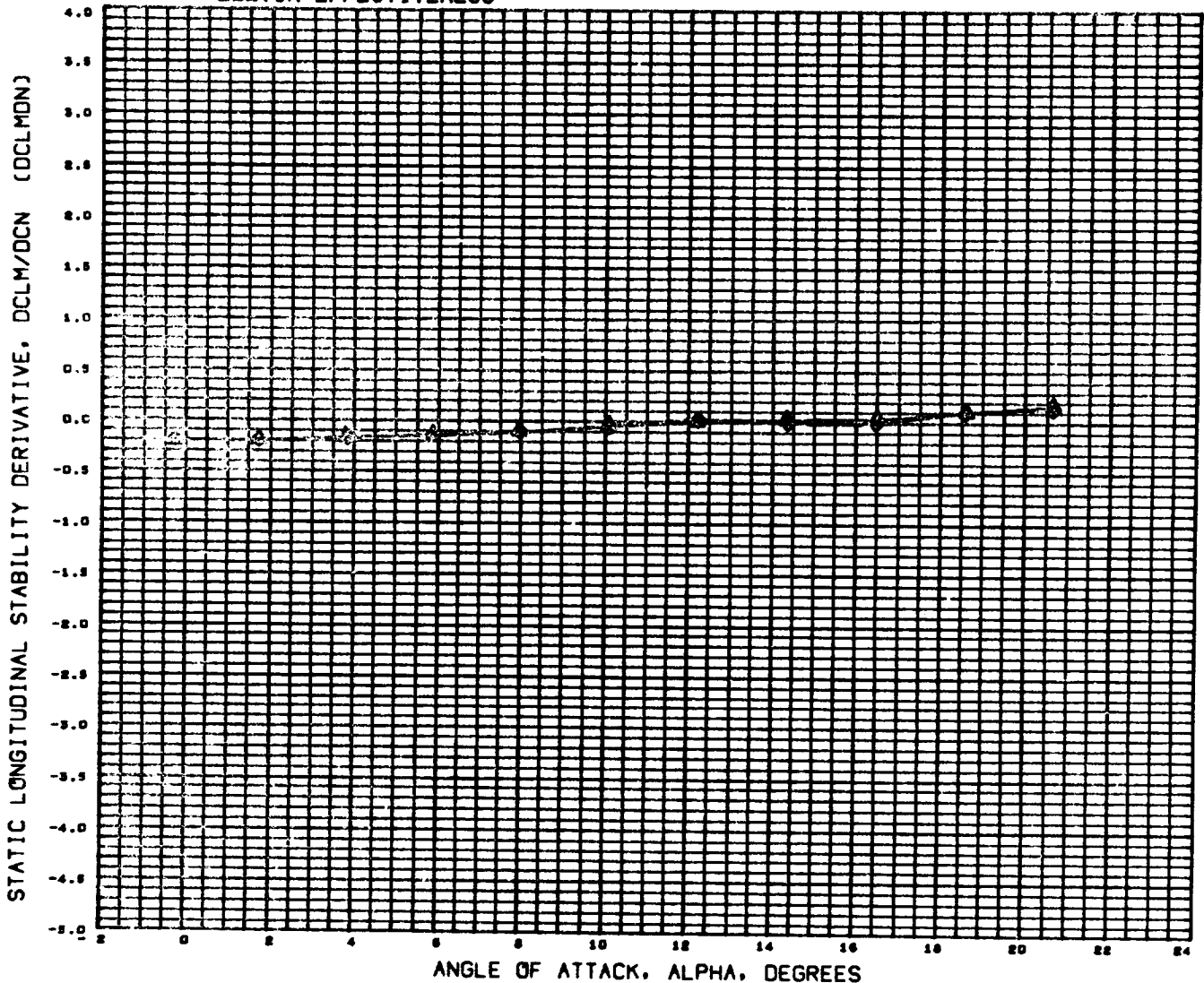
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-WBFC AR11991-1 MODEL B2W6V2
 (E3411A) M492-WBFC AR11991-1 MODEL B2W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
-30.000	-30.000	-30.000	0.000	BREF 4.6225 80.IN.
0.000	-10.000	-5.000	-5.000	LREF 4.3000 IN.
0.000	0.000	0.000	0.000	BREF 4.3000 IN.
10.000	0.000	5.000	5.000	XNRP 2.4000 IN.
				YNRP 0.0000 IN.
				ZNRP 0.0000 IN.
				SCALE 0.0025

MACH 1.156

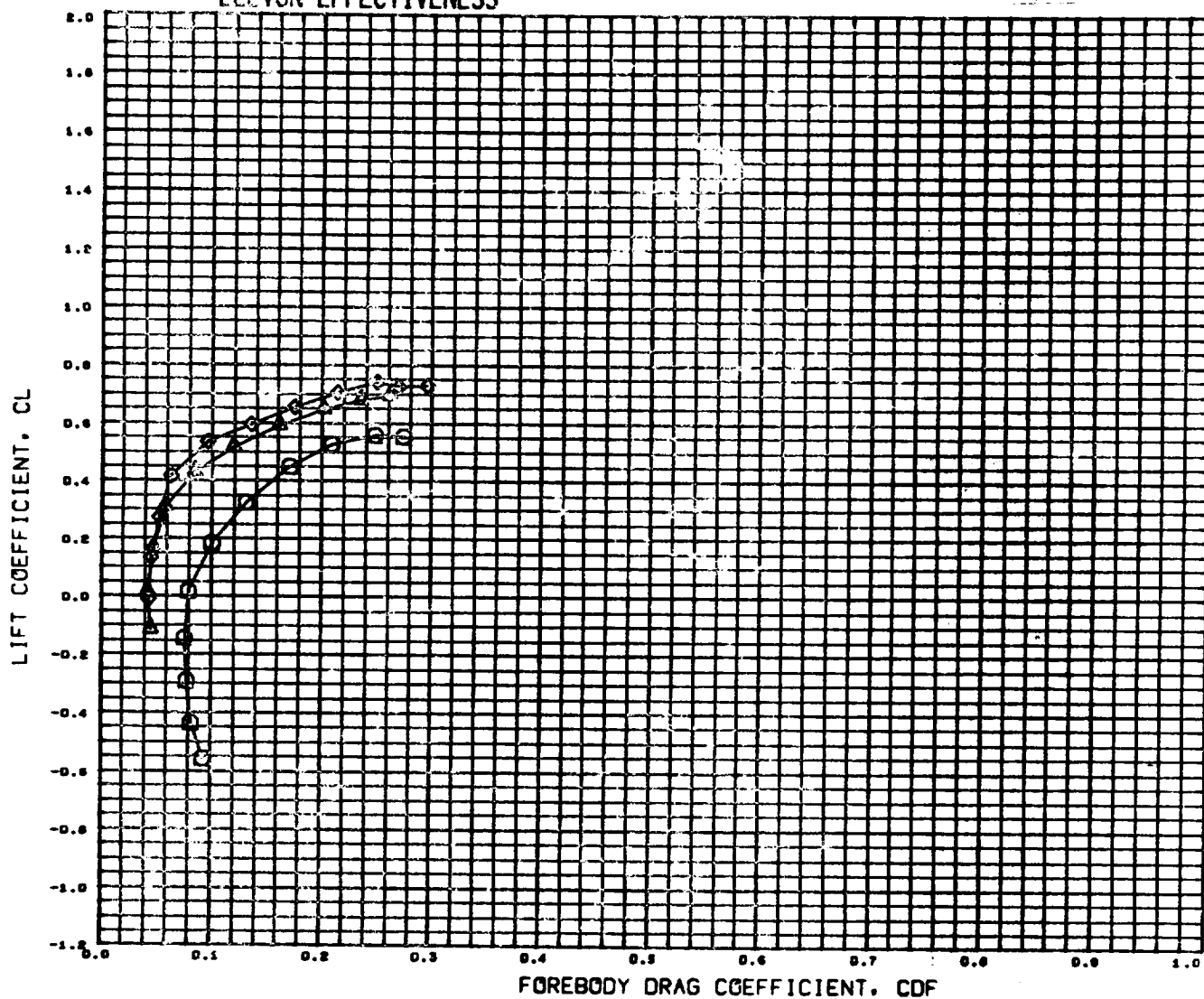
ELEVON EFFECTIVENESS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3414A)	⊗	DATA NOT AVAILABLE FOR ALL CONDITIONS	-30.000	-30.000	-30.000	0.000	SREF	4.6225 80. IN.
(E3412A)	⊗	N492-NBFC AR11981-1 MODEL SZM6V2	0.000	-10.000	-5.000	-5.000	LREF	4.3000 IN.
(E3411A)	⊗	N492-NBFC AR11981-1 MODEL SZM6V2	0.000	0.000	0.000	0.000	SREF	4.3000 IN.
(E3413A)	⊗	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	5.000	5.000	XMRP	2.4000 IN.
							YMRP	0.0000 IN.
							ZMRP	0.0000 IN.
							SCALE	0.0025

MACH 1.961

ELEVON EFFECTIVENESS

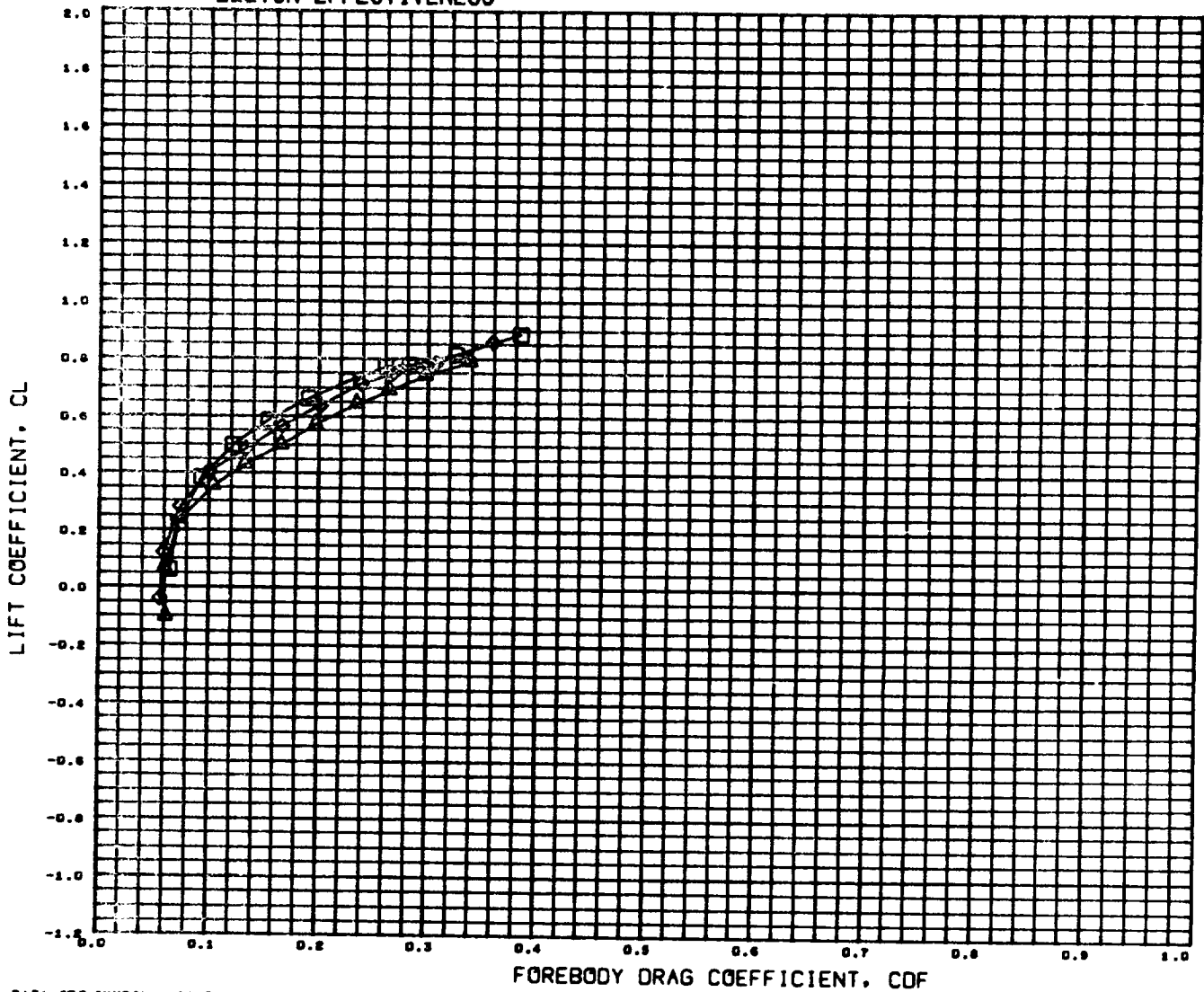


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E3414A)	○	N492-MSFC AR11991-1 MODEL B2W6V2
(E3412A)	△	N492-MSFC AR11991-1 MODEL B2W6V2
(E3411A)	◇	N492-MSFC AR11991-1 MODEL B2W6V2
(E3413A)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.600

REFERENCE INFORMATION		
SREF	4.6225	86. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XNRP	2.4000	IN.
YNRP	0.0000	IN.
ZNRP	0.0000	IN.
SCALE	0.0025	

ELEVON EFFECTIVENESS

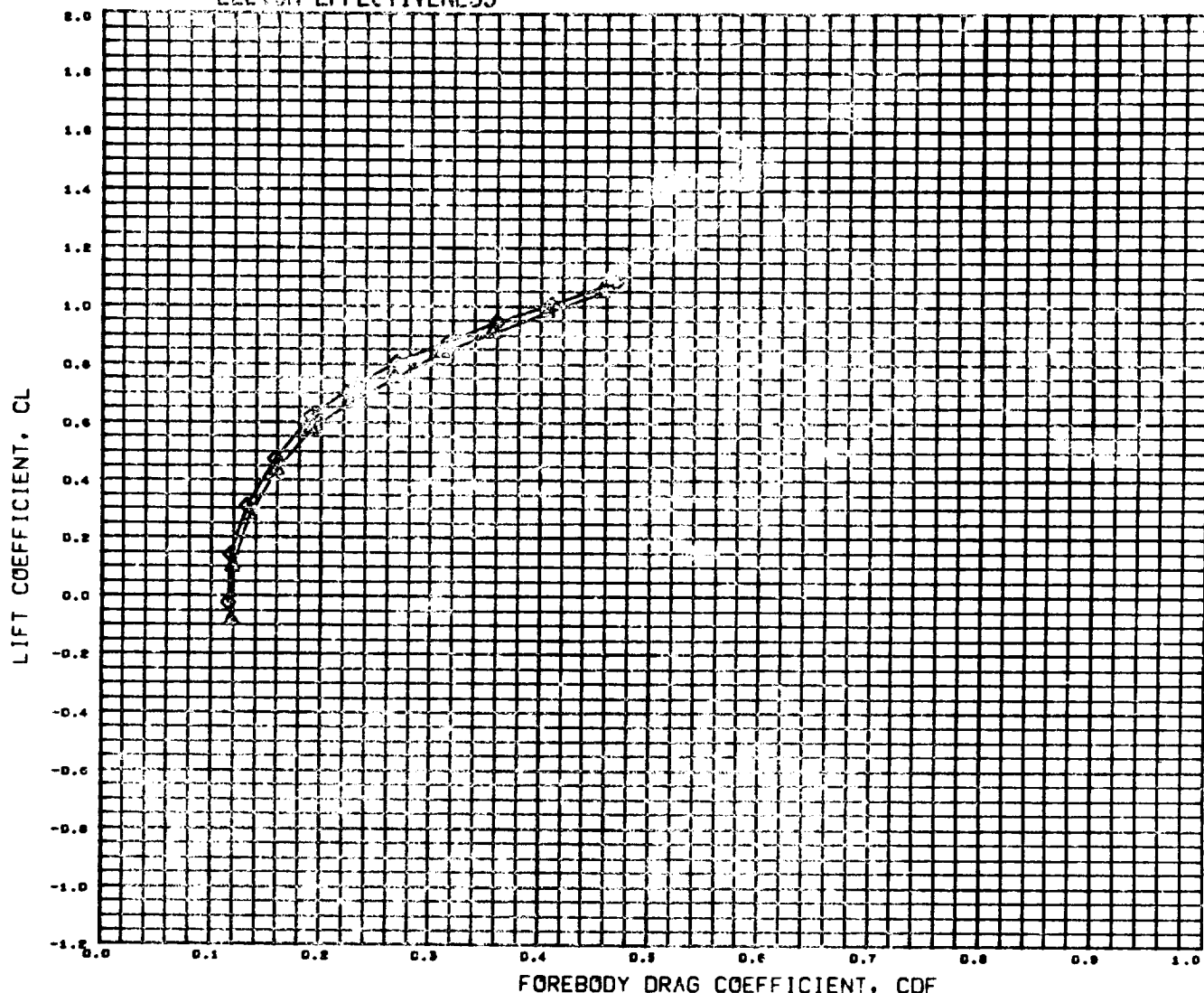


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) N492-MSFC AR11901-1 MODEL 82W6V2
 (E3411A) N492-MSFC AR11901-1 MODEL 82W6V2
 (E3413A) N492-MSFC AR11901-1 MODEL 82W6V2

MACH 0.903

REFERENCE INFORMATION
 SREF 4.0225 50 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 YMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

ELEVON EFFECTIVENESS

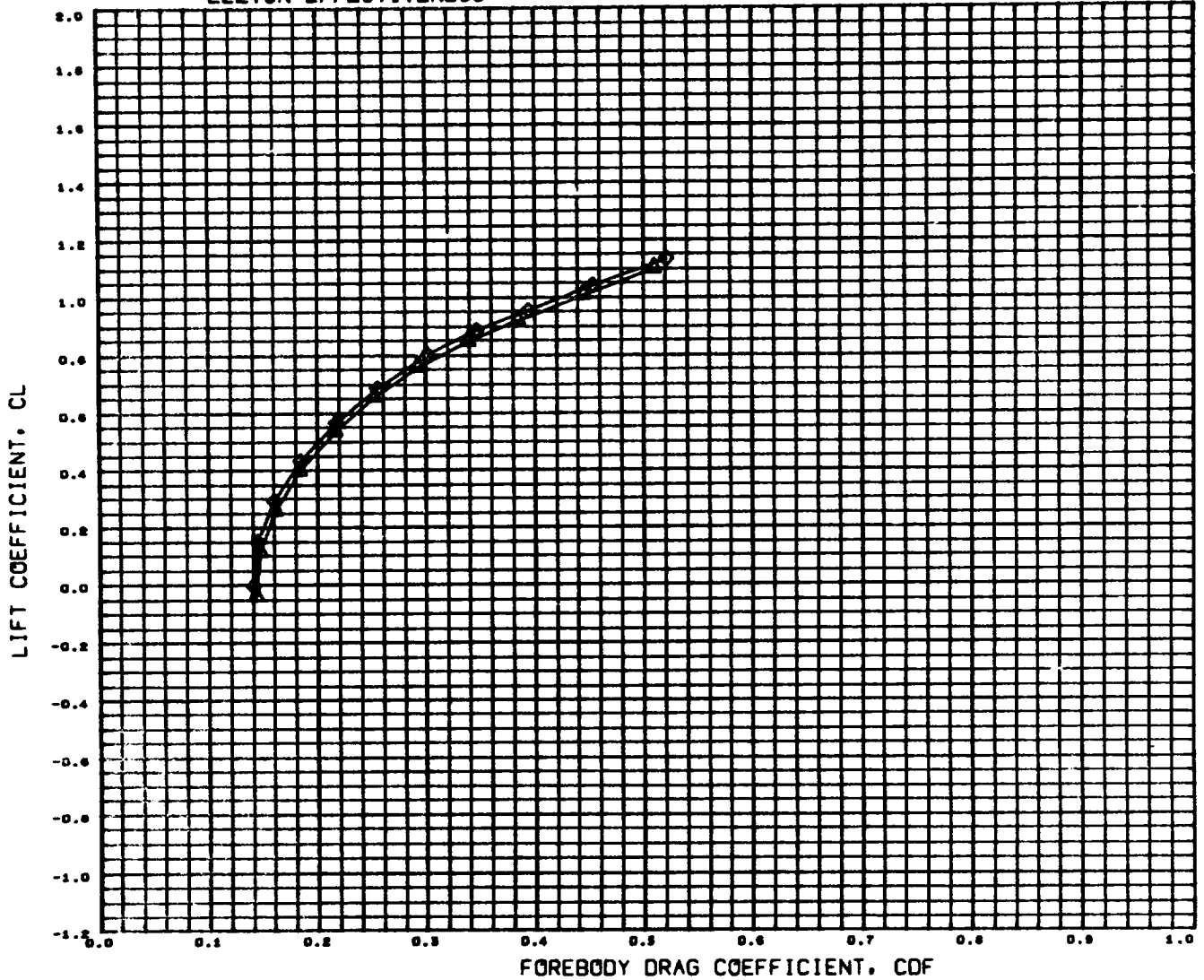


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3412A)	M492-MSFC AR11981-1 MODEL B2WEV2
(E3411A)	M492-MSFC AR11981-1 MODEL B2WEV2
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.005

REFERENCE INFORMATION		
SREF	4.6225	Sq. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

ELEVON EFFECTIVENESS

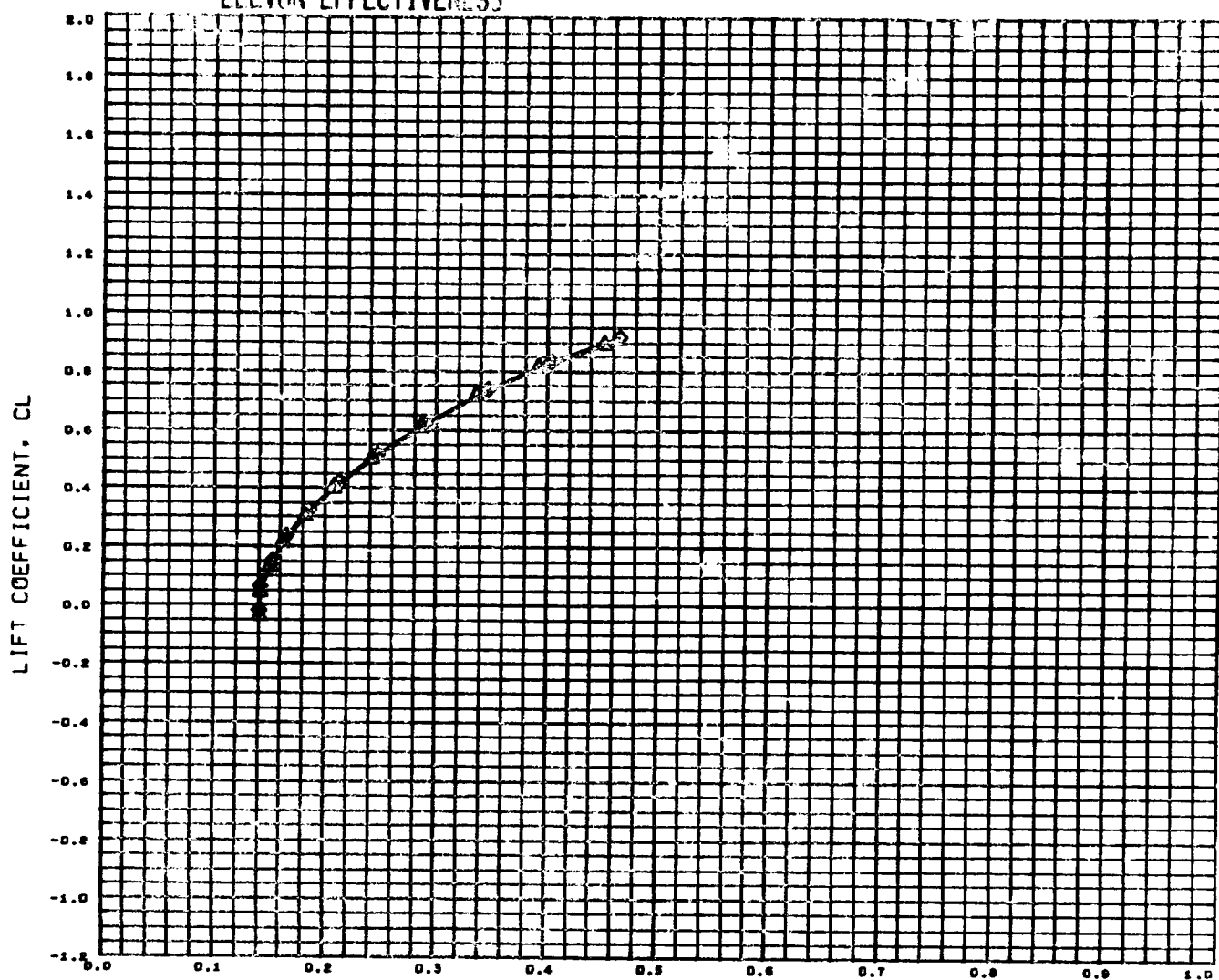


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) H492-NSFC AR11981-1 MODEL 82W8V2
 (E3411A) H492-NSFC AR11981-1 MODEL 82W8V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

REFERENCE INFORMATION
 SREF 4.6225 30.IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.196

ELEVON EFFECTIVENESS



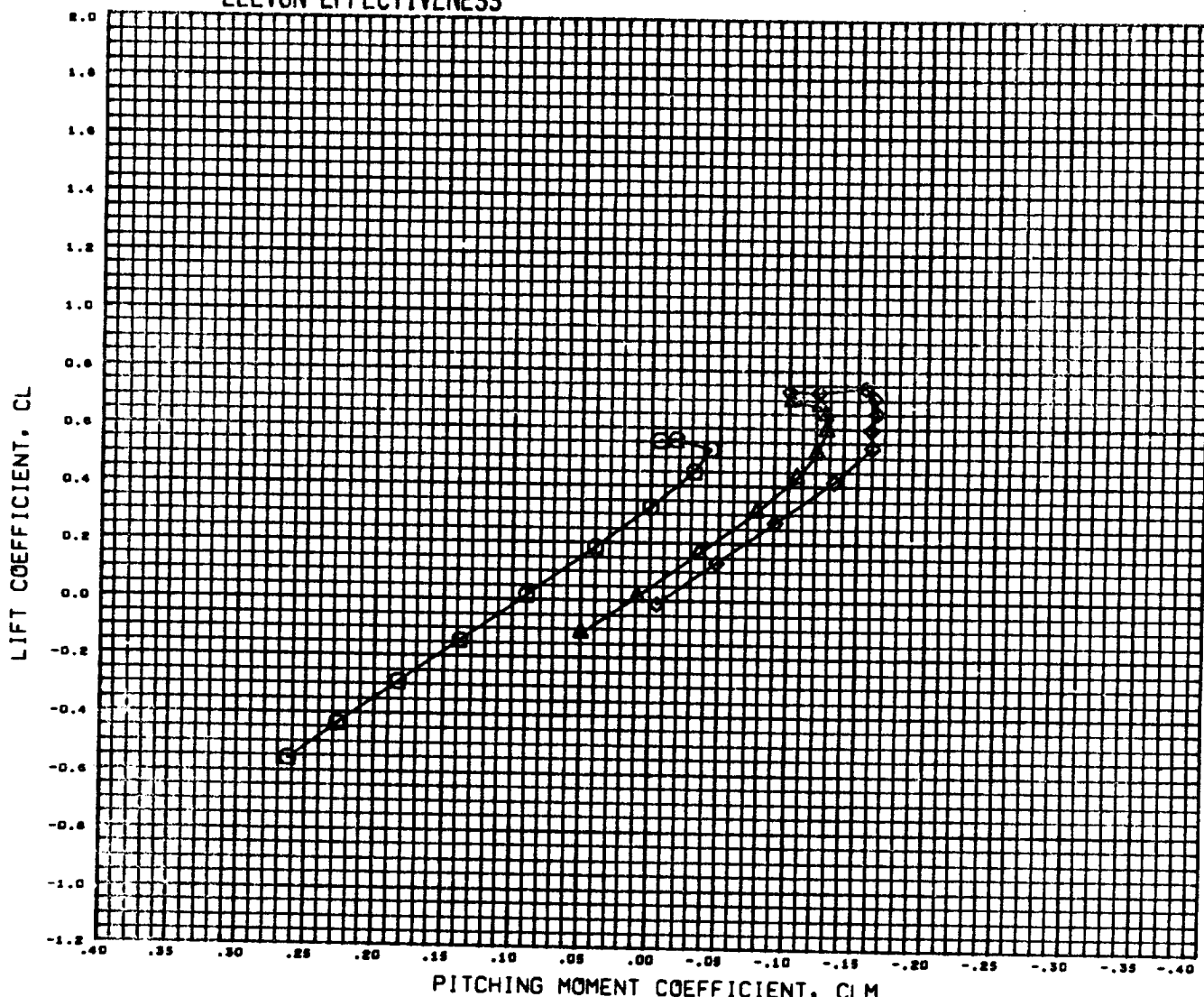
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3412A)	N492-MSFC AR11901-1 MODEL B2W6V2
(13411A)	N492-MSFC AR11901-1 MODEL B2W6V2
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH .961

FOREBODY DRAG COEFFICIENT, CDF

REFERENCE INFORMATION		
SREF	4.6225	90.1 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

ELEVON EFFECTIVENESS

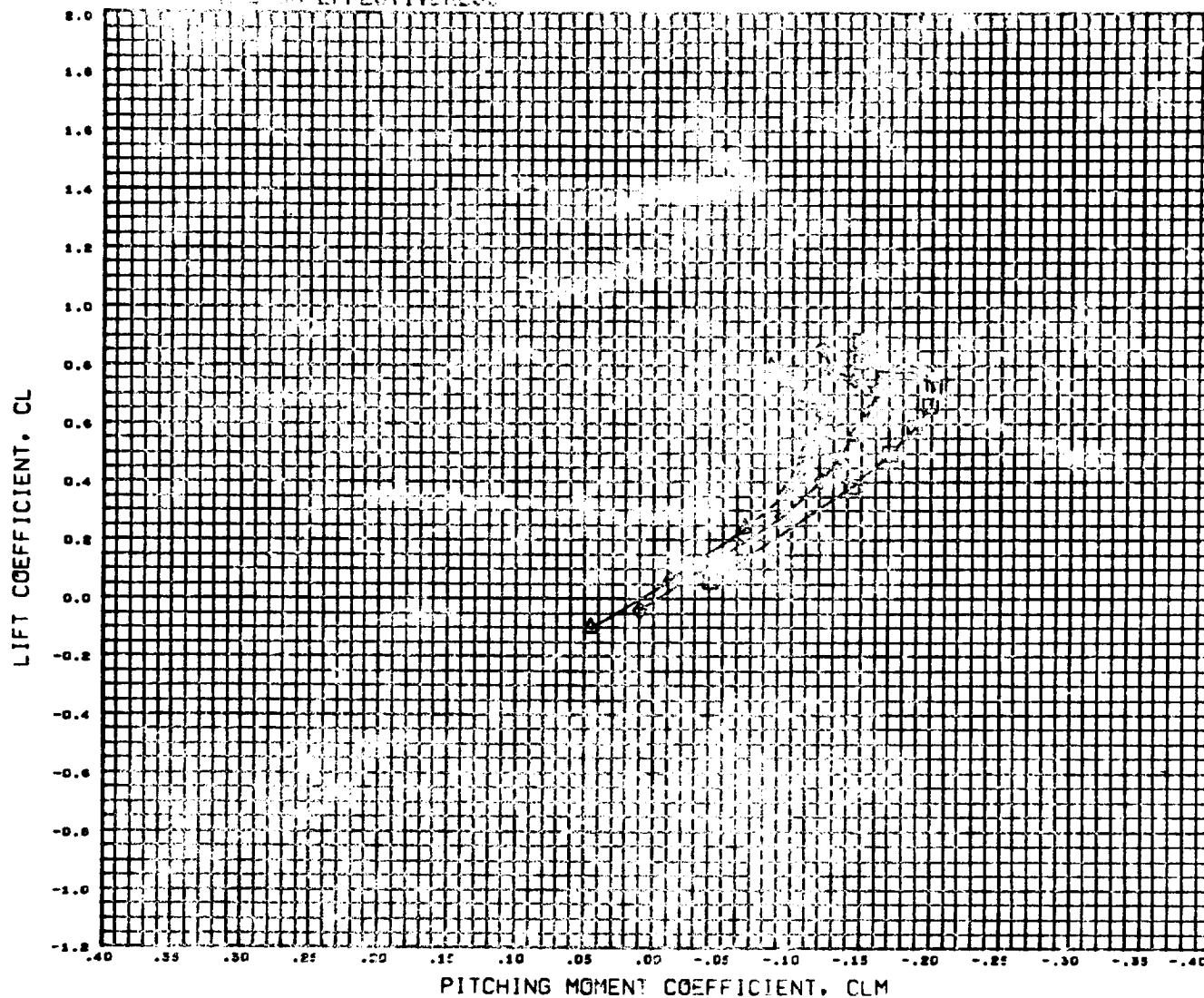


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3414A) ○ M492-MSFC AR11901-1 MODEL 82WSV2
 (E3412A) □ M492-MSFC AR11901-1 MODEL 82WSV2
 (E3411A) △ M492-MSFC AR11901-1 MODEL 82WSV2
 (E3413A) ◇ DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 0.600

REFERENCE INFORMATION
 SREF 4.6225 50 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DOWN EFFECTIVENESS

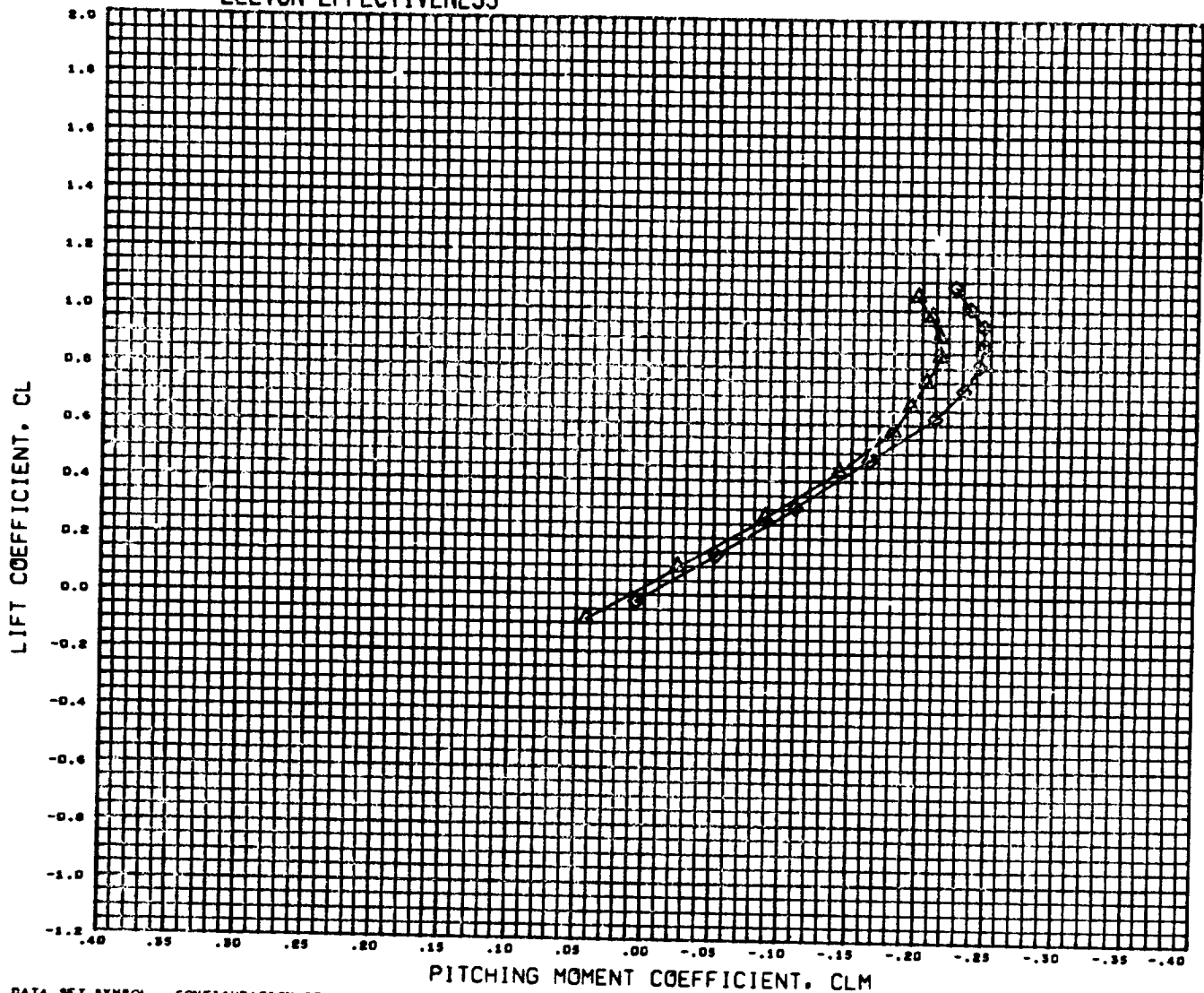


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3412A)	M492-MSFC AR11981-1 MODEL 82W6V2
(E3411A)	M492-MSFC AR11981-1 MODEL 82W6V2
(E3413A)	M492-MSFC AR11981-1 MODEL 82W6V2

MACH 0.903

REFERENCE INFORMATION		
SREF	4.6285	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

ELEVON EFFECTIVENESS

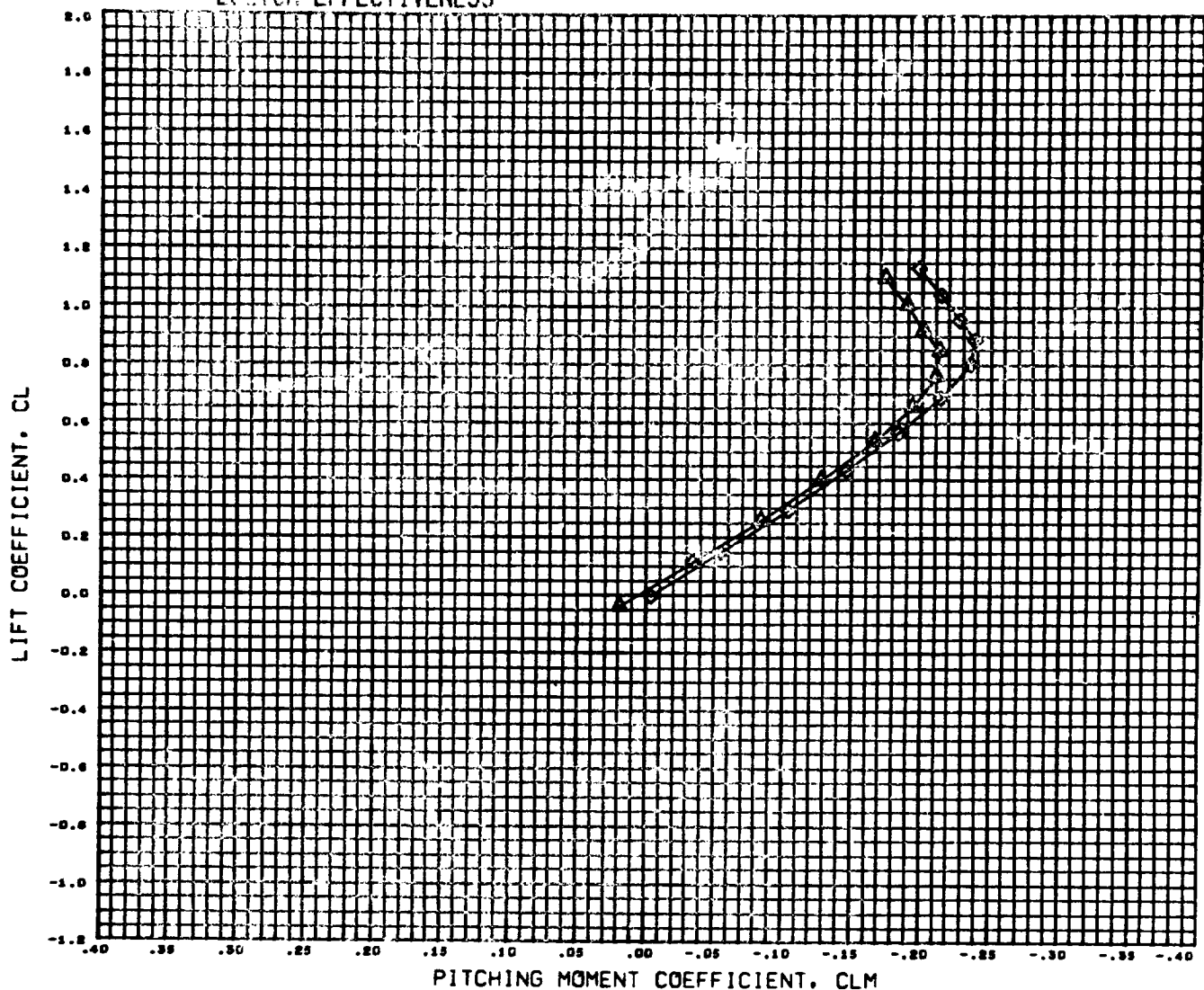


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3414A) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3412A) M492-HSFC AR11901-1 MODEL B2W6V2
 (E3411A) M492-HSFC AR11901-1 MODEL B2W6V2
 (E3413A) DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.006

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DELTA EFFECTIVENESS

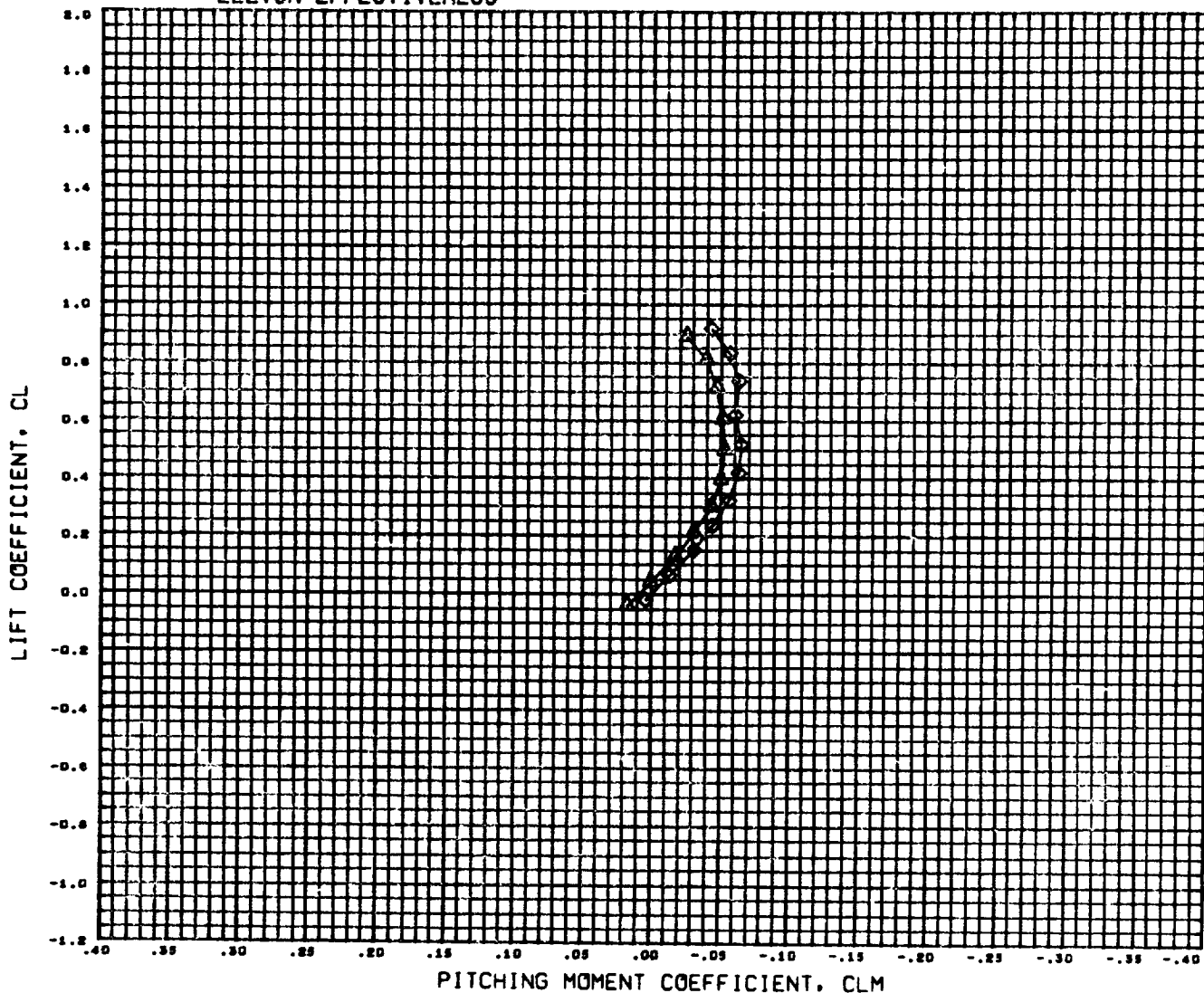


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3412A)	N492-MSFC AR11981-1 MODEL 82W6V2
(E3411A)	N492-MSFC AR11981-1 MODEL 82W6V2
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.195

REFERENCE INFORMATION		
SREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

ELEVON EFFECTIVENESS

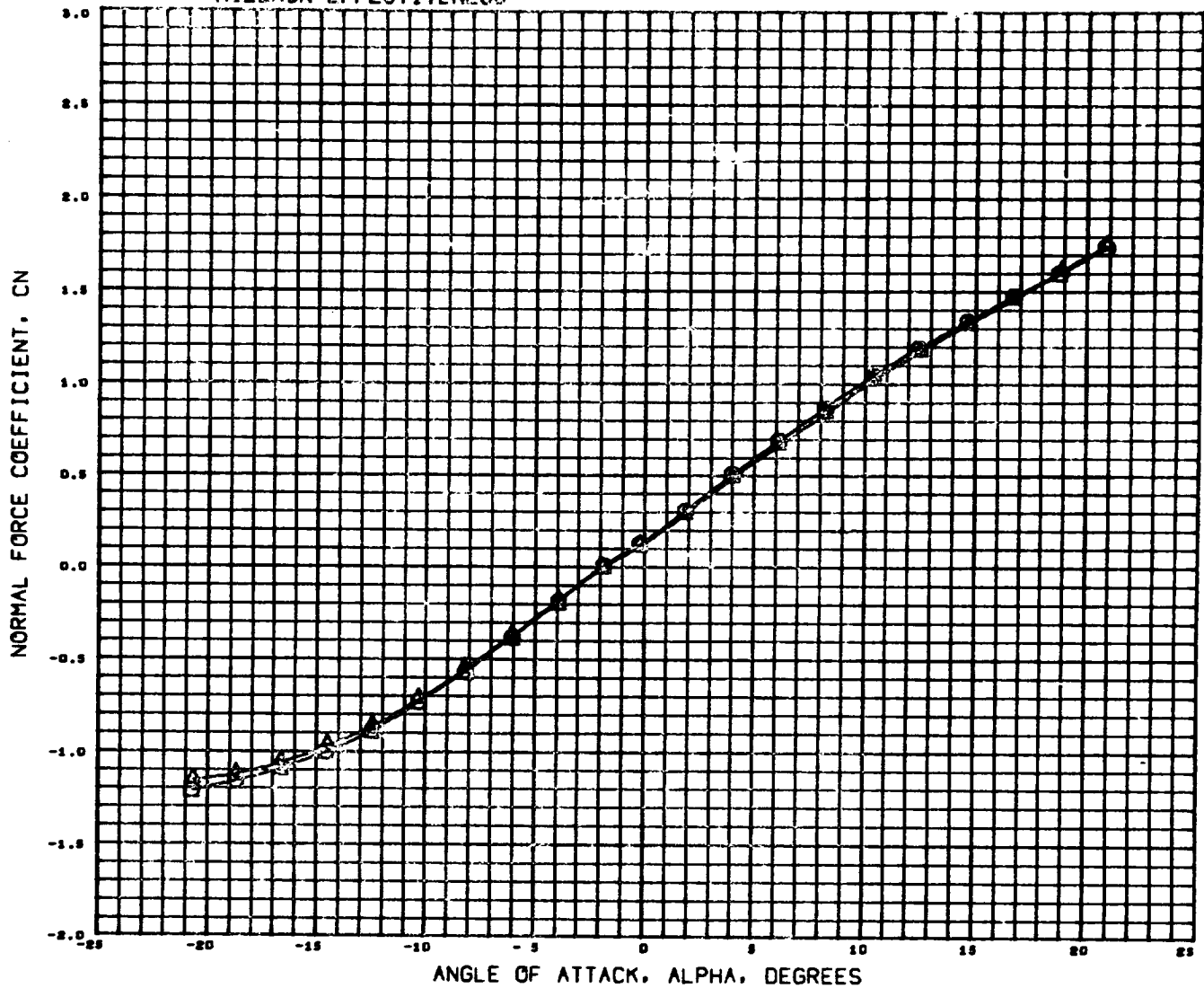


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3414A)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3412A)	M492-HSFC AR11981-1 MODEL 82W6V2
(E3411A)	M492-HSFC AR11981-1 MODEL 82W6V2
(E3413A)	DATA NOT AVAILABLE FOR ALL CONDITIONS

MACH 1.961

REFERENCE INFORMATION		
SREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

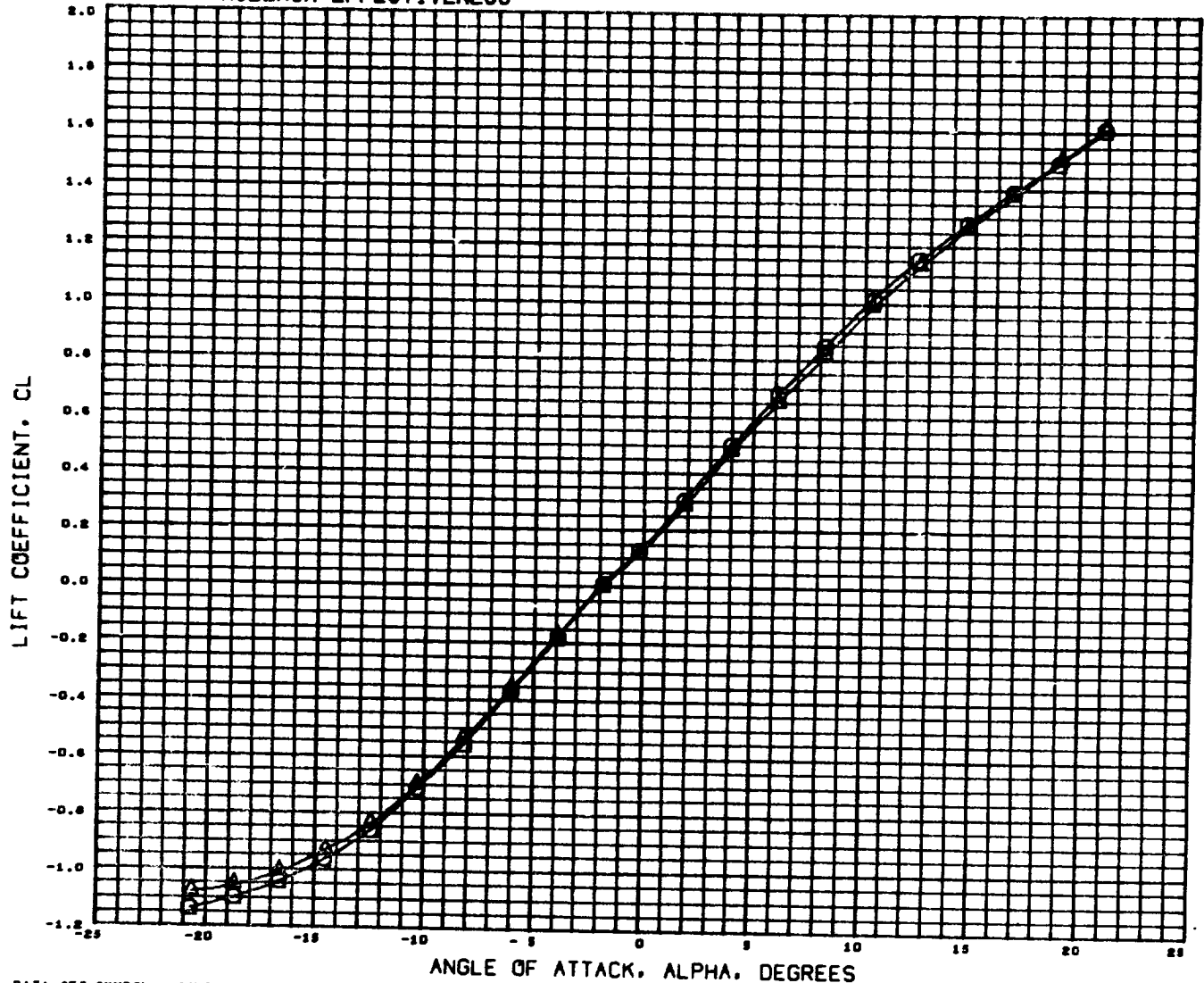
AILERON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E34198)	N492-MSFC AR1198I-1 MODEL B2W6V2O11	0.000	0.000	0.000	0.000	SREF	4.6225 80.IN.
(E34199)	N492-MSFC AR1198I-1 MODEL B2W6V2O11	10.000	-10.000	0.000	10.000	LREF	4.3000 IN.
						BREF	4.3000 IN.
						XNRP	2.4000 IN.
						YNRP	0.0000 IN.
						ZNRP	0.0000 IN.
						SCALE	0.0025

MACH 0.599

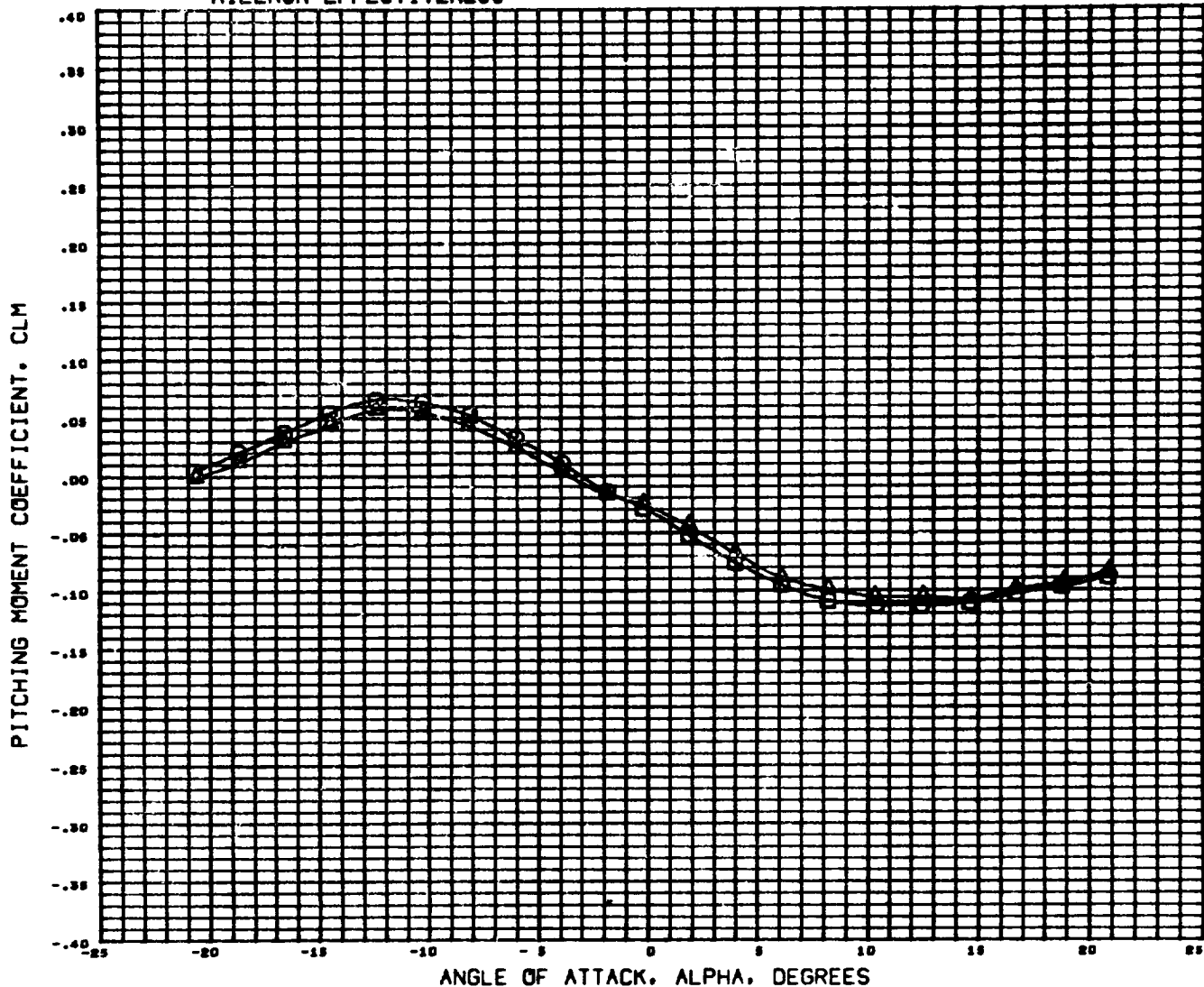
AILERON EFFECTIVENESS



DATA SET SYMBOL		CONFIGURATION DESCRIPTION				DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E34198)	Q	M492-M3FC	AR11991-1	MODEL	82W6V2011	0.000	0.000	0.000	0.000	SREF	4.6225 30.IN.
(E34198)	Q	M492-M3FC	AR11991-1	MODEL	82W6V2011	10.000	-10.000	0.000	10.000	LREF	4.3000 IN.
										BREF	4.3000 IN.
										XHRP	2.4000 IN.
										YHRP	0.0000 IN.
										ZHRP	0.0000 IN.
										SCALE	0.0025

MACH 0.599

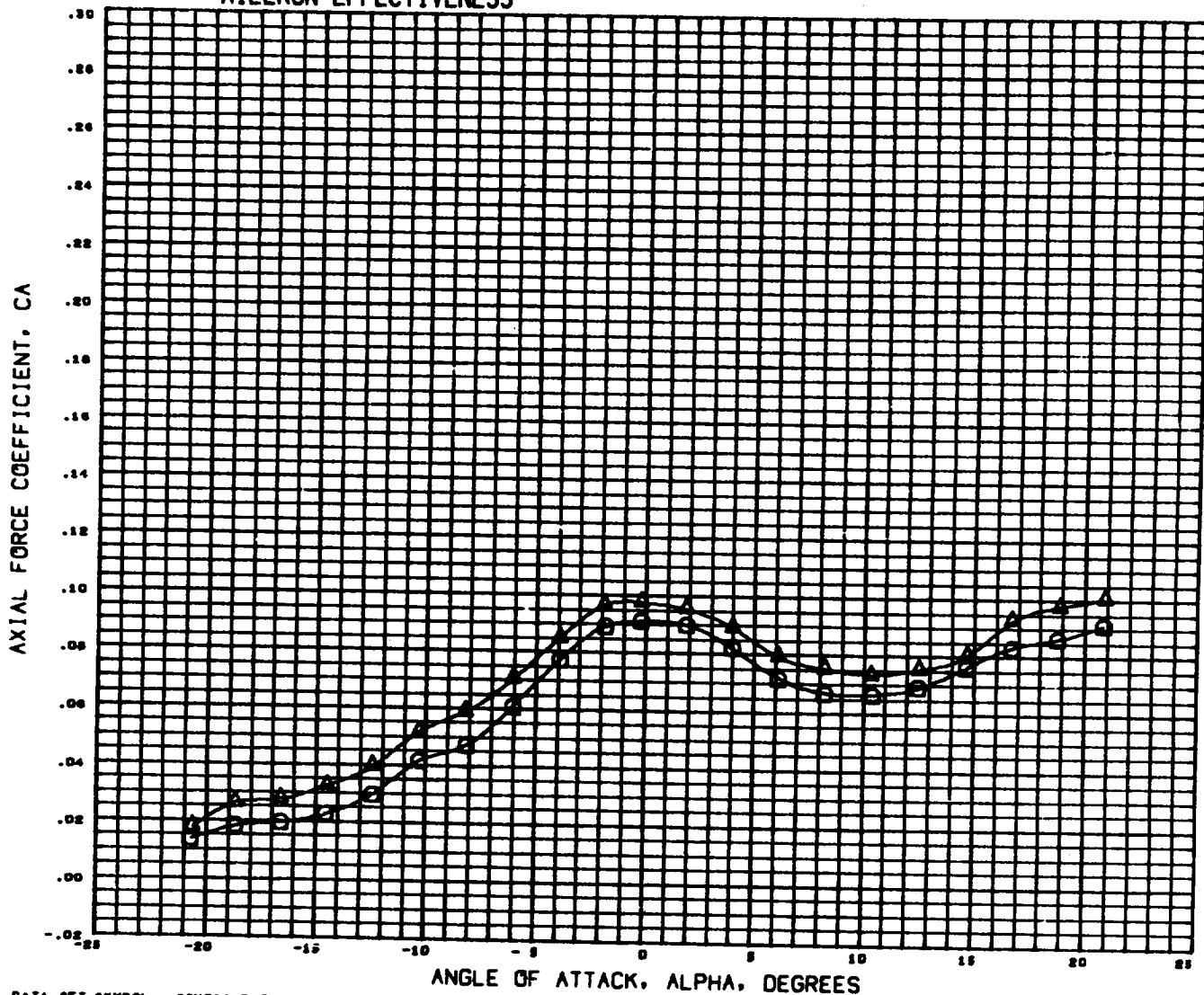
AILERON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION					DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION		
(E34155)	Q	M492-M3FC	AR11981-1	MODEL	BZWSVZ011	0.000	0.000	0.000	0.000	BREF	4.6225 80.IN.
(E34163)	A	M492-M3FC	AR11981-1	MODEL	BZWSVZ011	10.000	-10.000	0.000	10.000	LREF	4.3000 IN.
										BREF	4.3000 IN.
										XMRP	2.4000 IN.
										YMRP	0.0000 IN.
										ZMRP	0.0000 IN.
										SCALE	0.0025

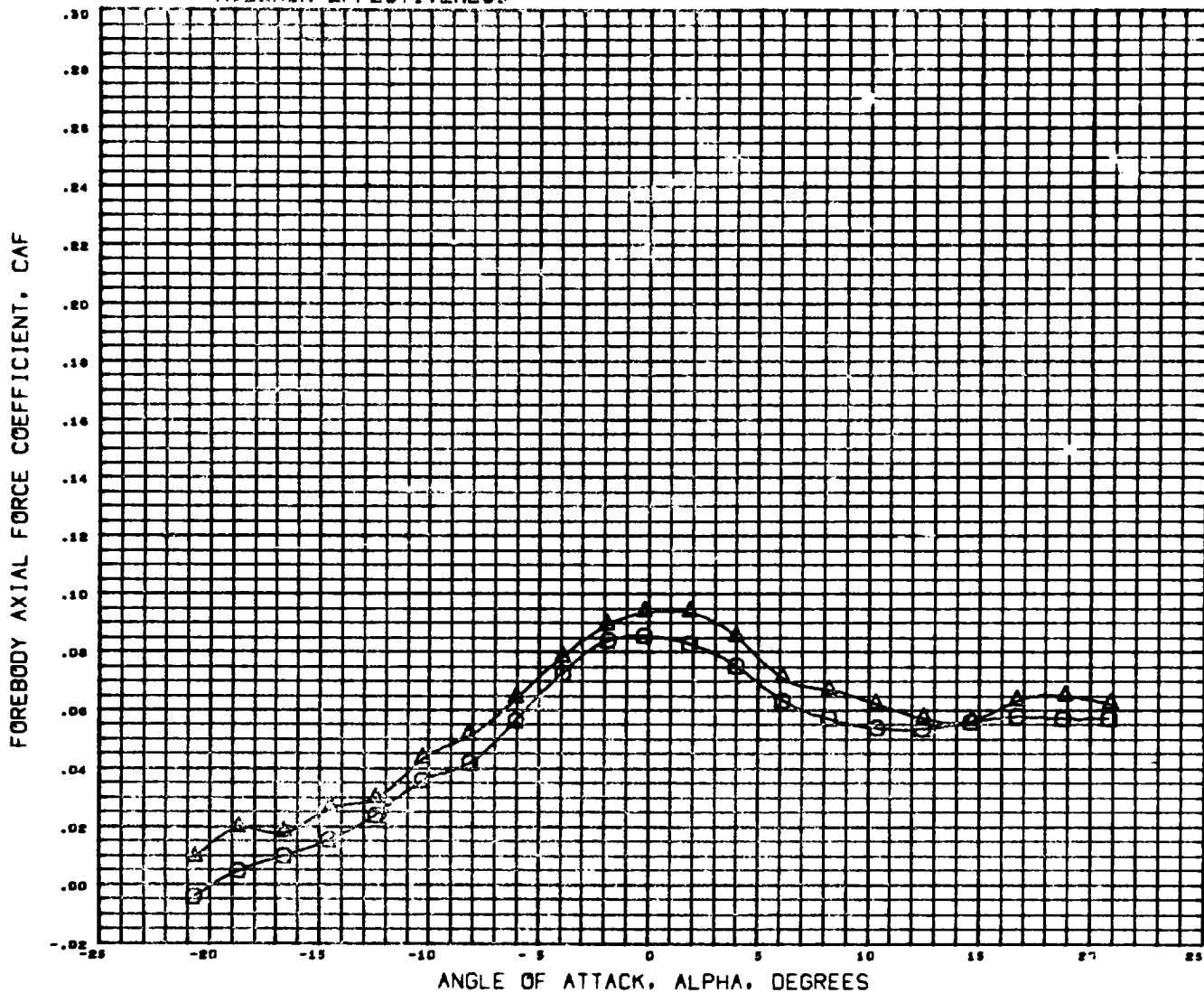
MACH 0.599

AILERON EFFECTIVENESS



DATA SET SYMBOL		CONFIGURATION DESCRIPTION								REFERENCE INFORMATION				
(E34158)	Q	M492-HSFC	AR11981-1	MODEL	B2M6VZ011	DEL	0.000	DER	0.000	ELEVTR	AILRON	SREF	4.6225	30.IN.
(E34168)	A	M492-HSFC	AR11981-1	MODEL	B2M6VZ011		10.000	-10.000	0.000		10.000	LREF	4.3000	IN.

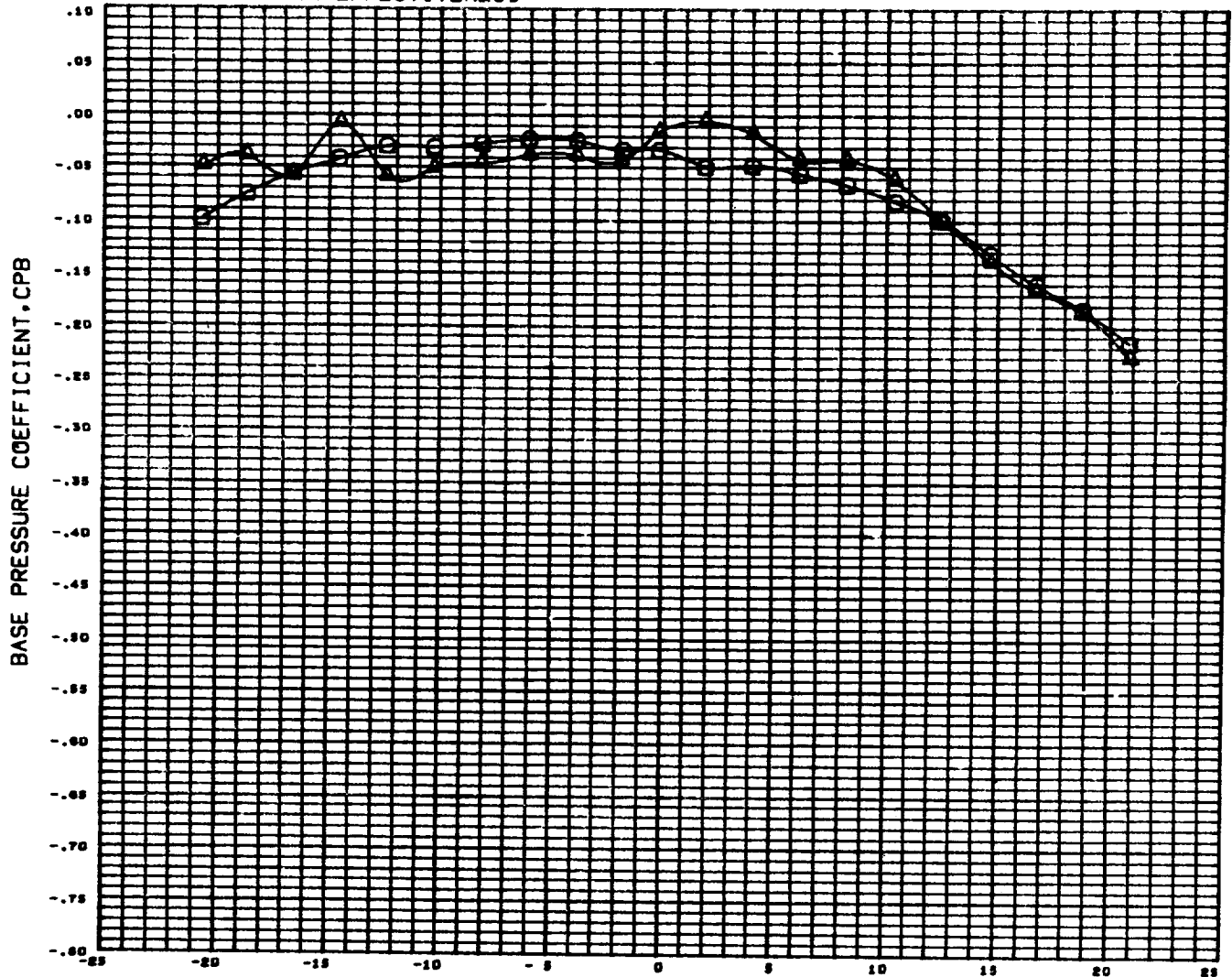
AILERON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E34153)	M492-MSFC AR11961-1 MODEL B2W6V2011	0.000	0.000	0.000	0.000	SREF 4.6225 50. IN.
(E34168)	M492-MSFC AR11961-1 MODEL B2W6V2011	10.000	-10.000	0.000	10.000	LREF 4.3000 IN.
						BREF 4.3000 IN.
						XNRP 2.4000 IN.
						YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.599

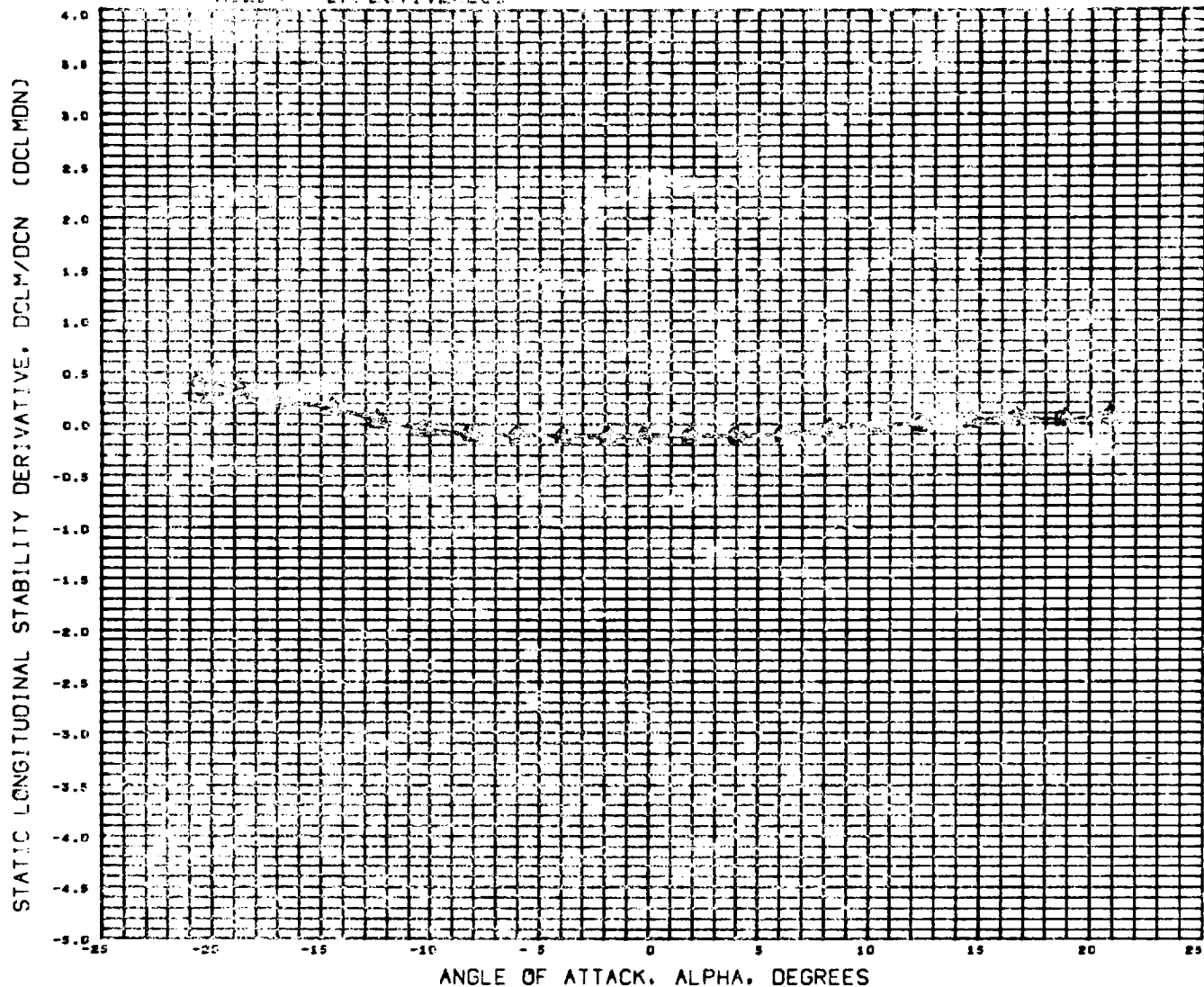
AILERON EFFECTIVENESS



DATA SET SYMBOL				CONFIGURATION DESCRIPTION				ANGLE OF ATTACK, ALPHA, DEGREES				REFERENCE INFORMATION			
(E34133)	Q	M492-M3FC	AR1198I-1	MODEL	B2W6V2011	0.000	0.000	0.000	0.000	0.000	0.000	SREF	4.6225	50. IN.	
(E34148)	Q	M492-M3FC	AR1198I-1	MODEL	B2W6V2011	10.000	-10.000	0.000	10.000	10.000	10.000	LREF	4.3000	IN.	
												BREF	4.3000	IN.	
												XMRP	2.4000	IN.	
												YMRP	0.0000	IN.	
												ZMRP	0.0000	IN.	
												SCALE	0.0025		

MACH 0.999

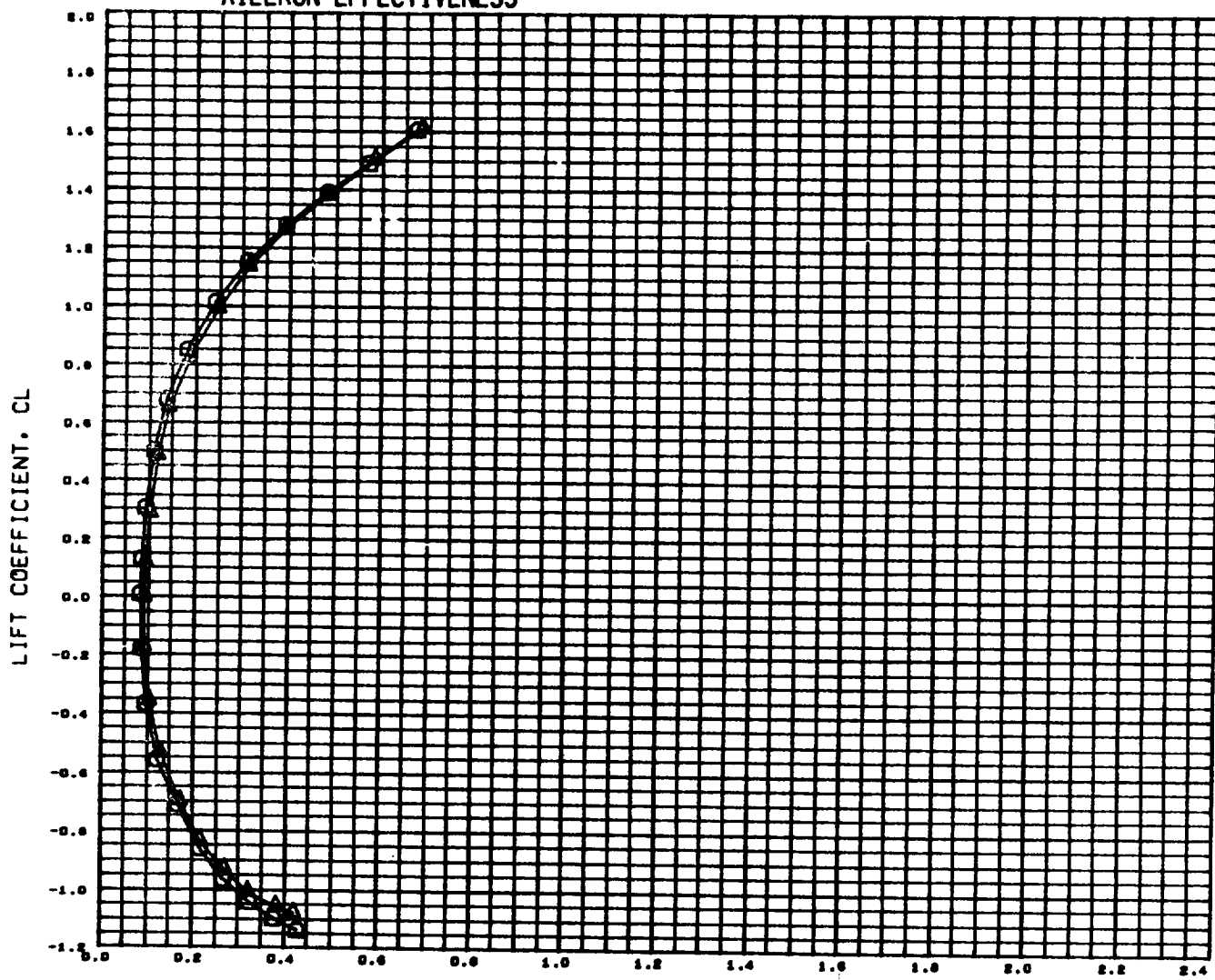
AILRON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION
(E34188)	N492-MSFC AR11981-1 MODEL B2W6V2011	0.000	0.000	0.000	0.000	SREF 4.6225 59. IN.
(E34188)	N492-MSFC AR11981-1 MODEL B2W6V2011	10.000	-10.000	0.000	10.000	LREF 4.3000 IN.
						BREF 4.3000 IN.
						XMRP 2.4000 IN.
						YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.595

AILERON EFFECTIVENESS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E34158) Ω M492-MSFC AR11901-1 MODEL
 (E34168) Δ M492-MSFC AR11901-1 MODEL

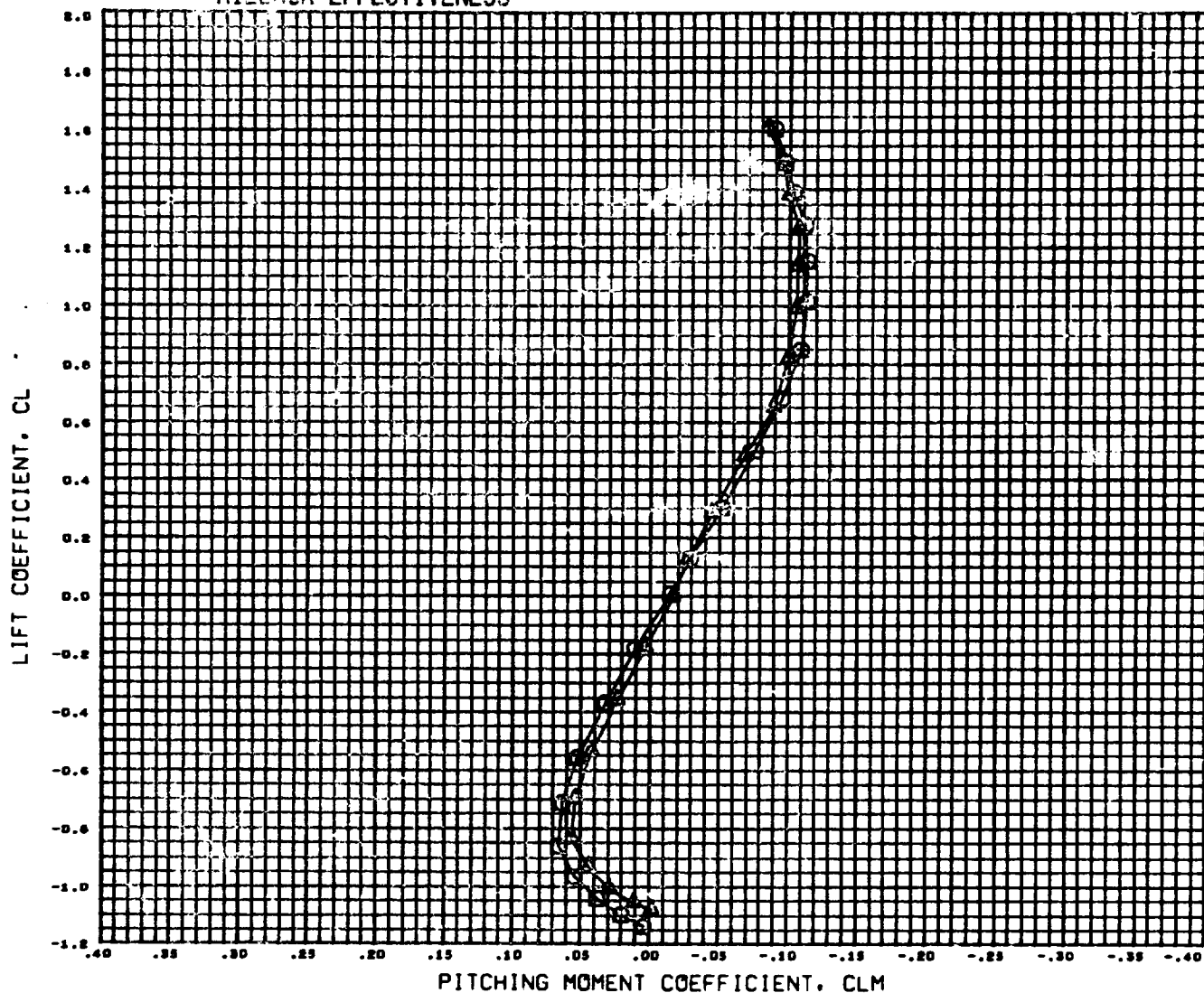
FOREBODY DRAG COEFFICIENT, CDF

DEL	DER	ELEVTR	AILRON
0.000	0.000	0.000	0.000
10.000	-10.000	0.000	10.000

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.399

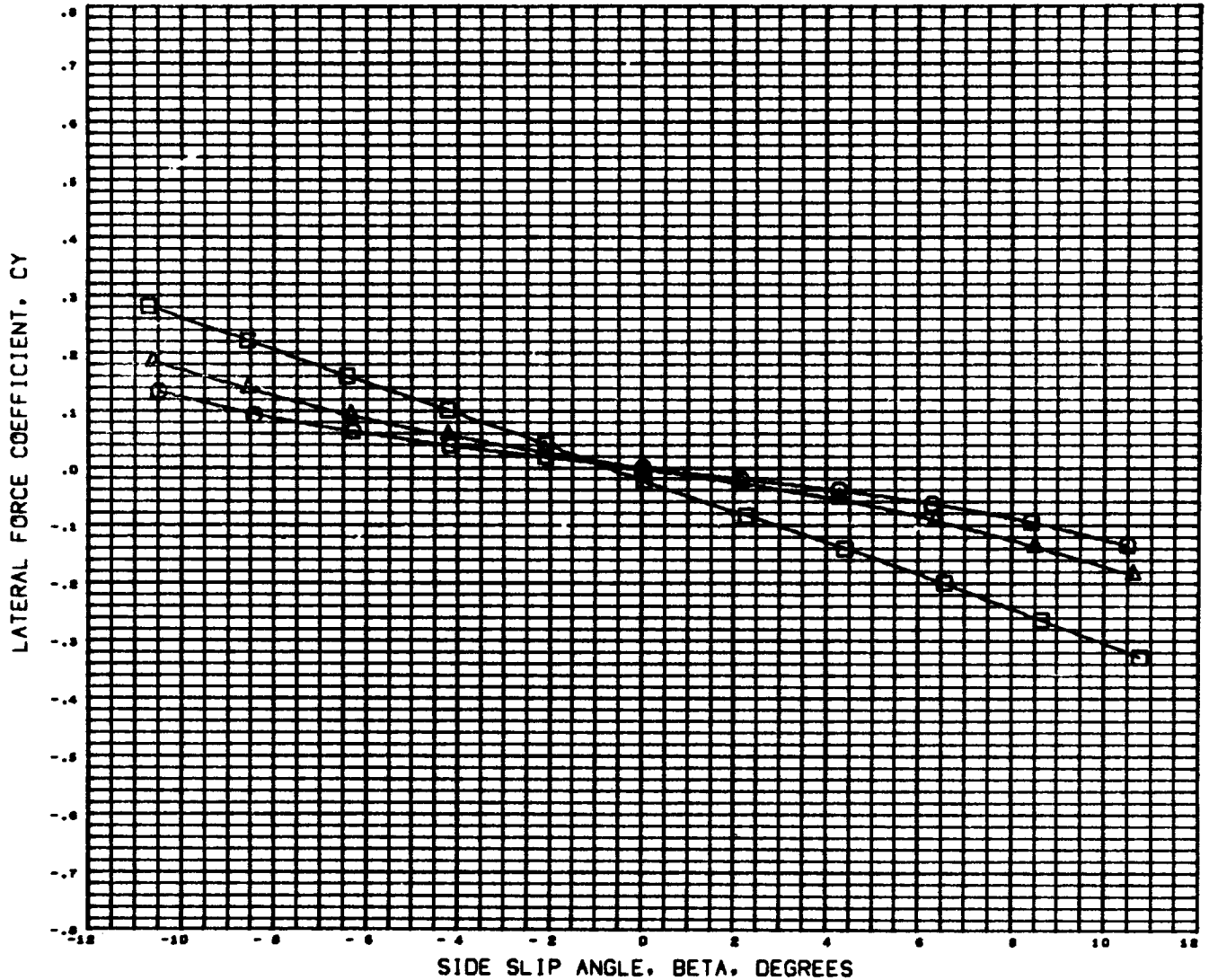
AILERON EFFECTIVENESS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	DEL	DER	ELEVTR	AILRON	REFERENCE INFORMATION	
(E34155)	M492-MSFC AR11981-1 MODEL B2W6V2011	0.000	0.000	0.000	0.000	SREF	4.6225 88 IN.
(E34165)	M492-MSFC AR11981-1 MODEL B2W6V2011	10.000	-10.000	0.000	10.000	LREF	4.3000 IN.
						BREF	4.3000 IN.
						XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.598

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



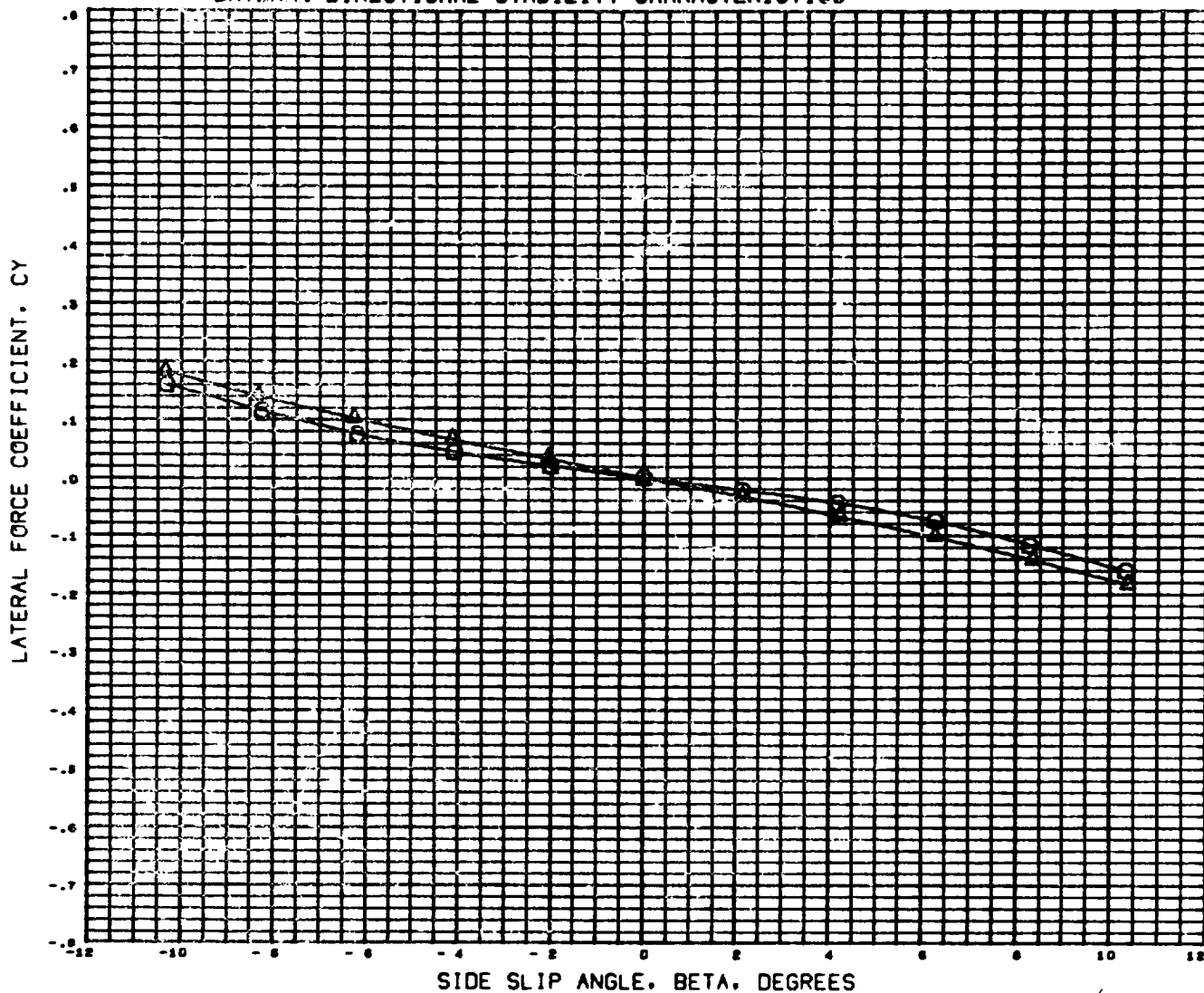
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	M492-NBFC AR11961-1 MODEL B2
(E3401G)	M492-NBFC AR11961-1 MODEL B2
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	M492-NBFC AR11961-1 MODEL B2

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION	
SREF	4.6225 86 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.056

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



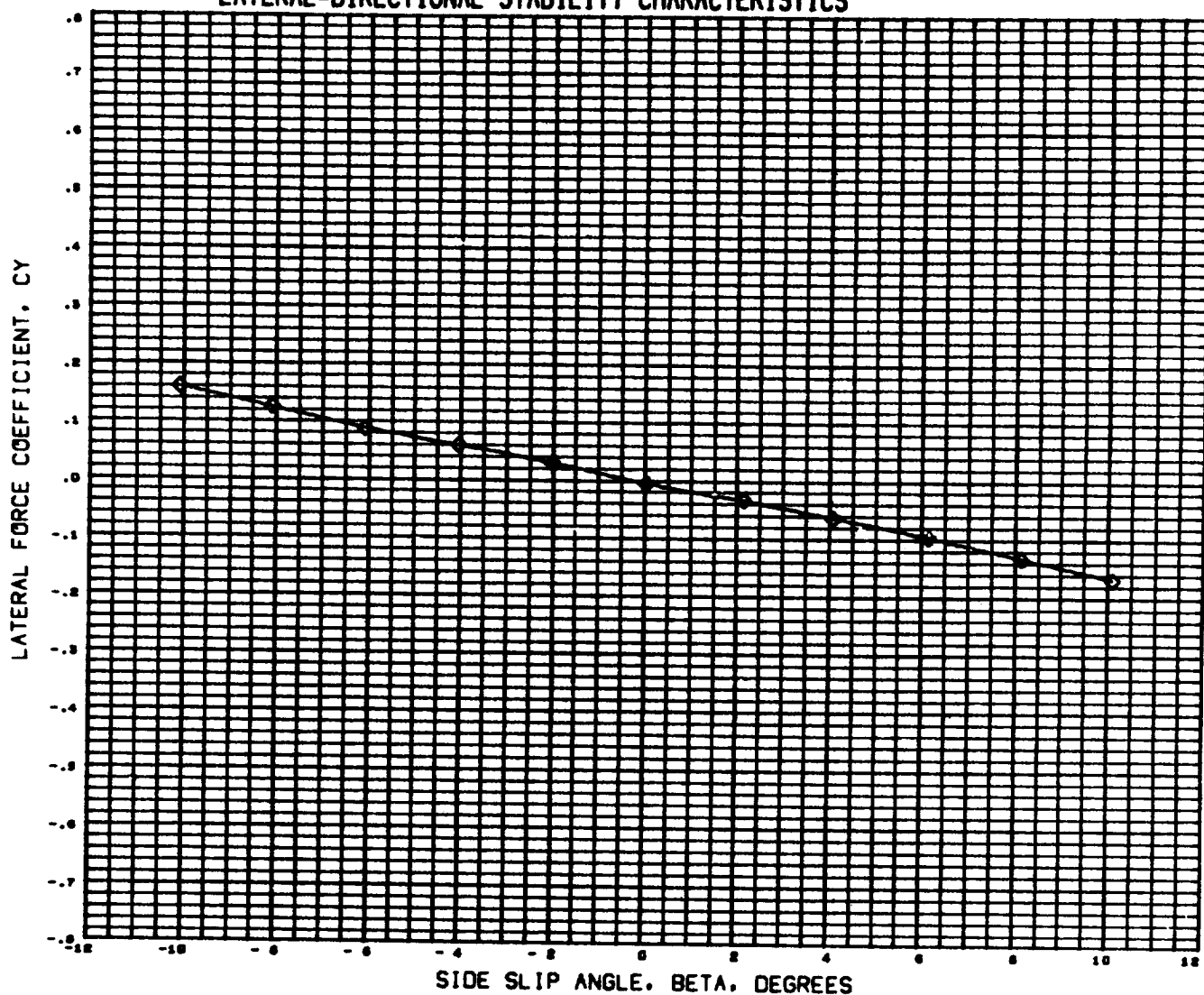
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) M492-HSFC AR11901-1 MODEL B2
 (E3401G) M492-HSFC AR11901-1 MODEL B2
 (E3401H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 55. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XHRP 2.4000 IN.
 YHRP 0.0000 IN.
 ZHRP 0.0000 IN.
 SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



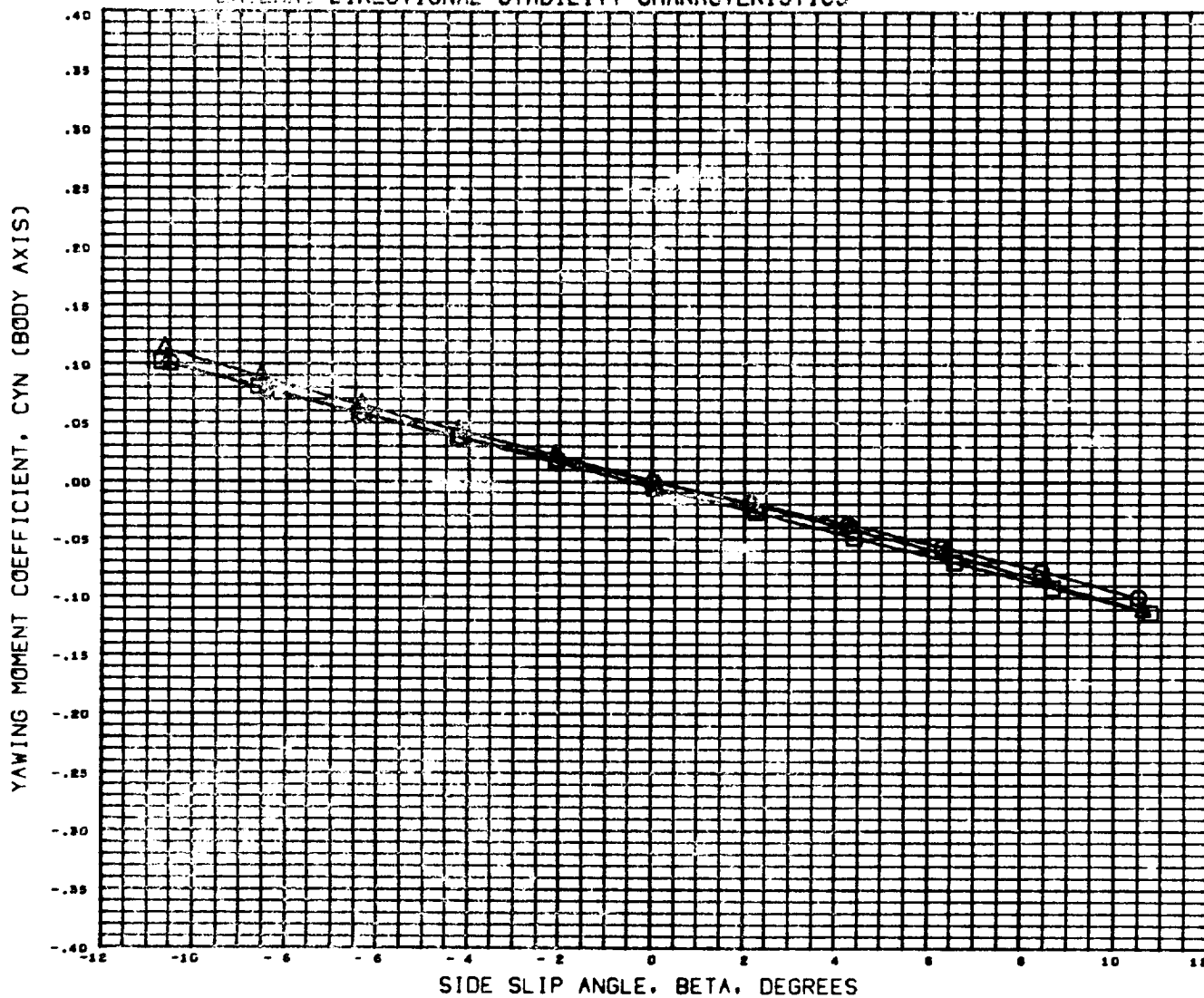
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401H) M492-NBFC AR1581-1 MODEL 82
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 88 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XNRP 2.4000 IN.
 YNRP 0.0000 IN.
 ZNRP 0.0000 IN.
 SCALE 0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



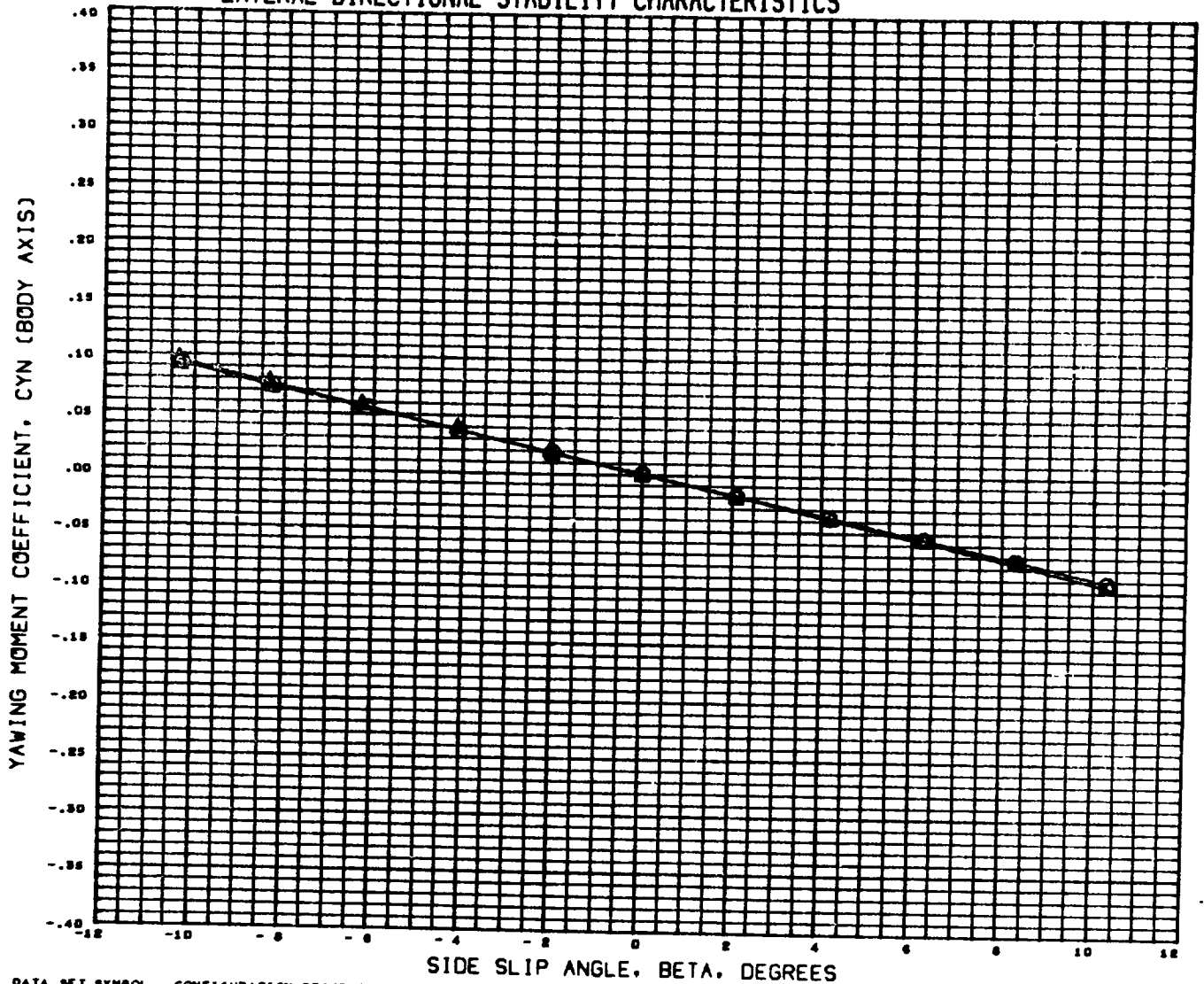
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	M492-MSFC AR11981-1 MODEL 82
(E3401G)	M492-MSFC AR11981-1 MODEL 82
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	M492-MSFC AR11981-1 MODEL 82

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION
SREF 4.6225 50. IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

MACH 1.956

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



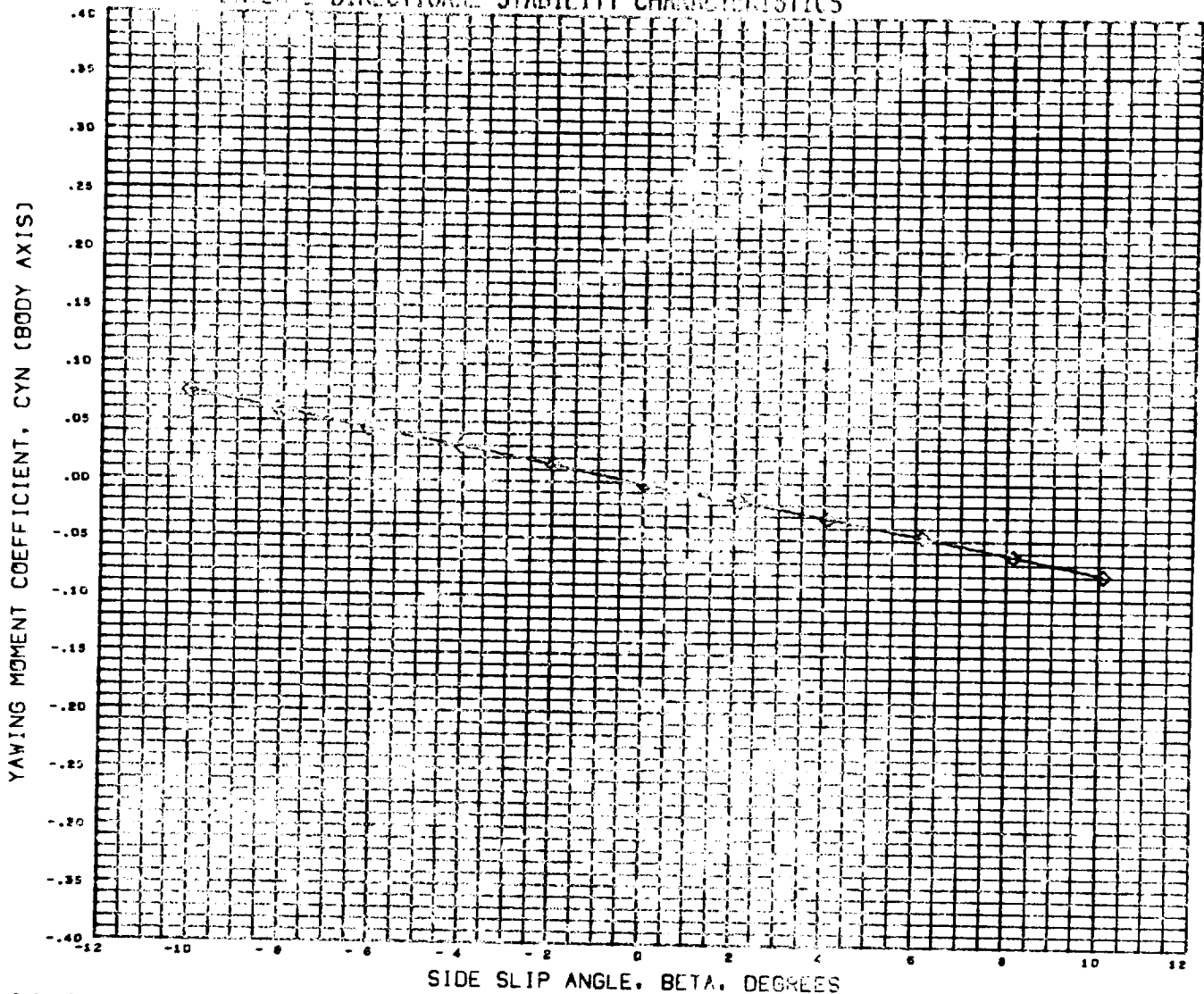
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) M492-N8FC AR11981-1 MODEL S2
 (E3401G) M492-N8FC AR11981-1 MODEL S2
 (E3401H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



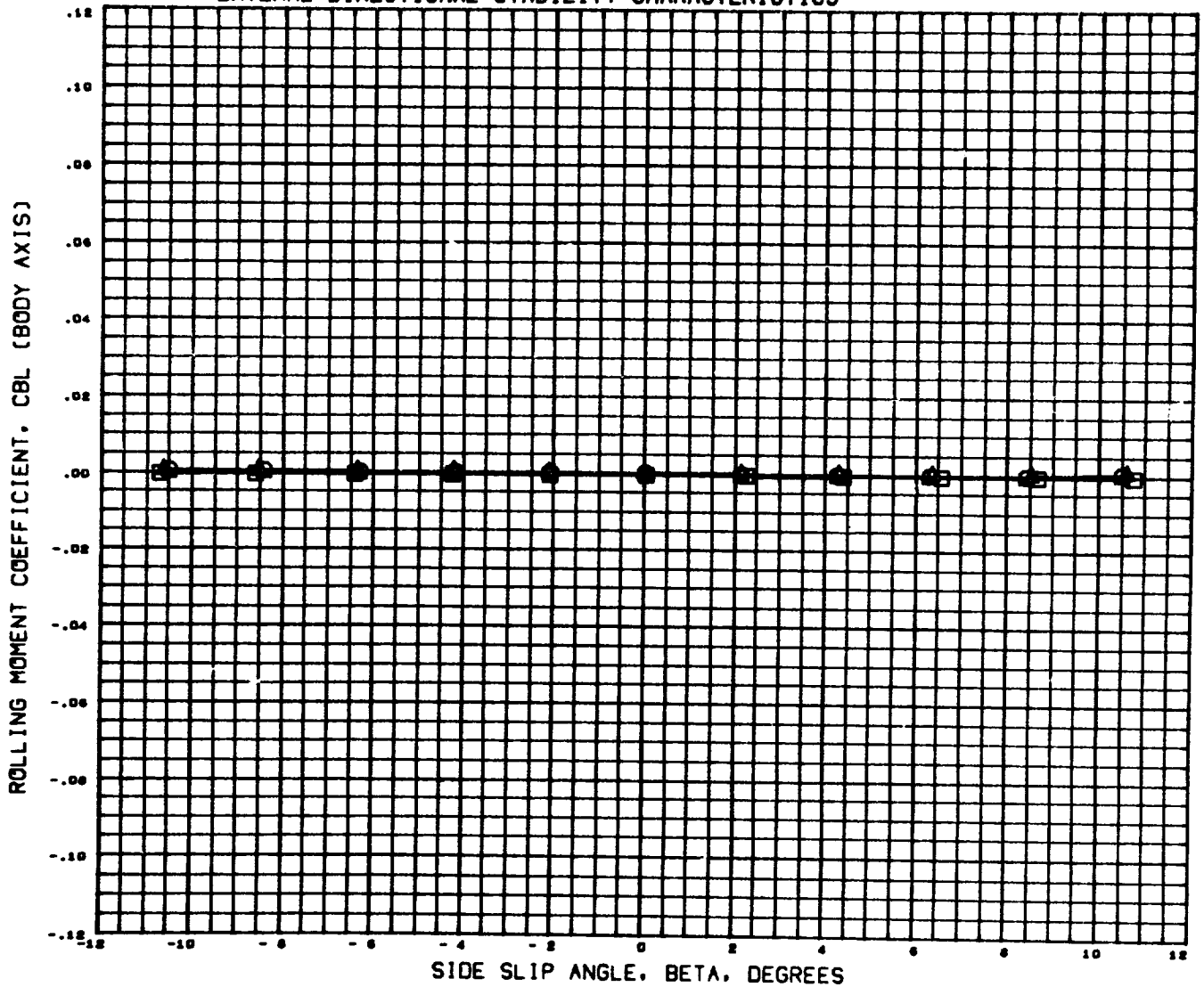
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401H) M492-HSFC AR11981-1 MODEL B2
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 50 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 4.925

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



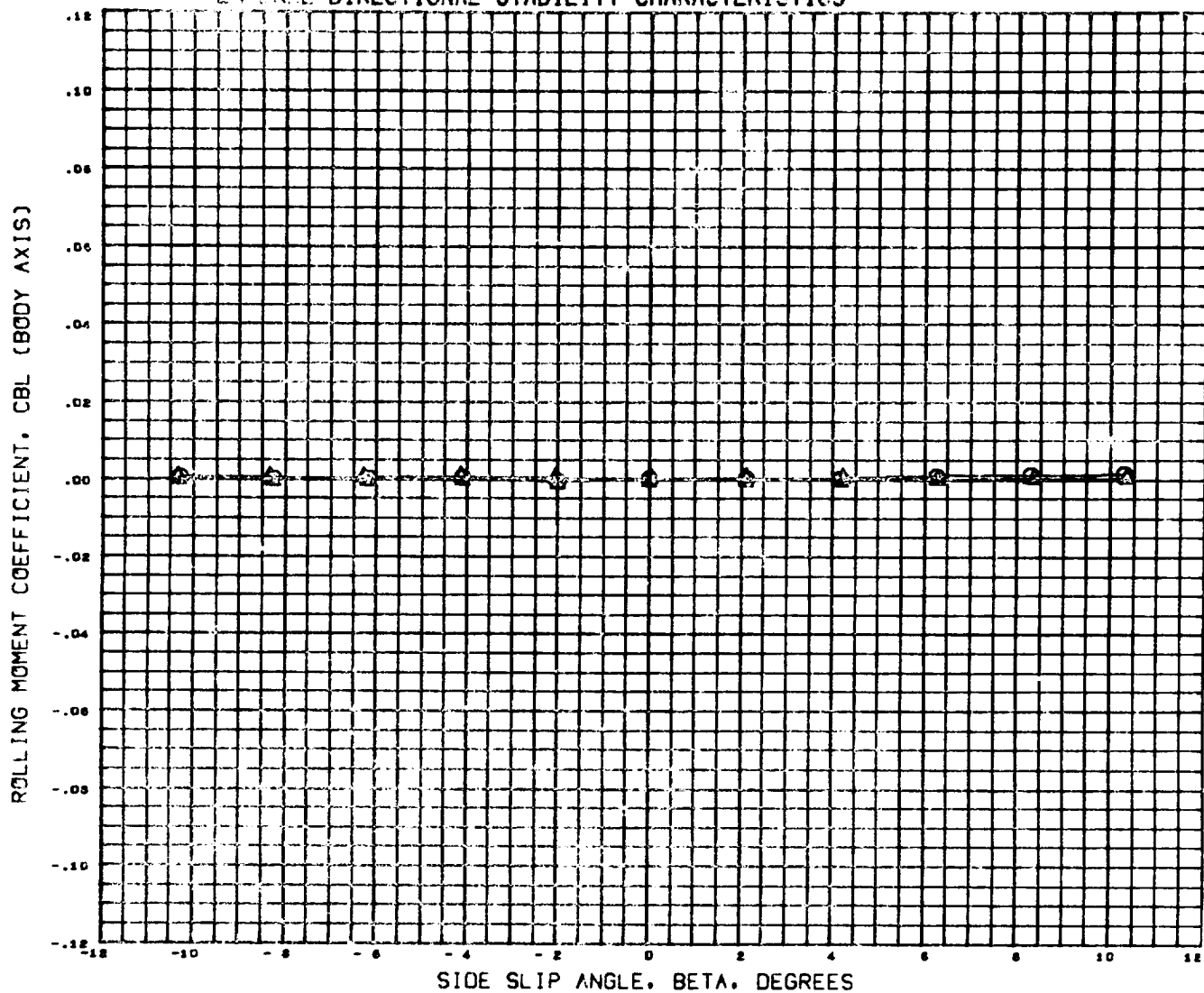
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E94017)	○	N492-NSFC AR11991-1 MODEL B2
(E94018)	◐	N492-NSFC AR11991-1 MODEL B2
(E94019)	◑	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E94011)	□	N492-NSFC AR11991-1 MODEL B2

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION	
SREF	4.6225 sq.in.
LREF	4.3000 in.
BREF	4.3000 in.
XMRP	2.4000 in.
YMRP	0.0000 in.
ZMRP	0.0000 in.
SCALE	0.0025

NACM 1.856

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) M492-MSFC AR1981-1 MODEL B2
 (E3401G) M492-MSFC AR1981-1 MODEL B2
 (E3401H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



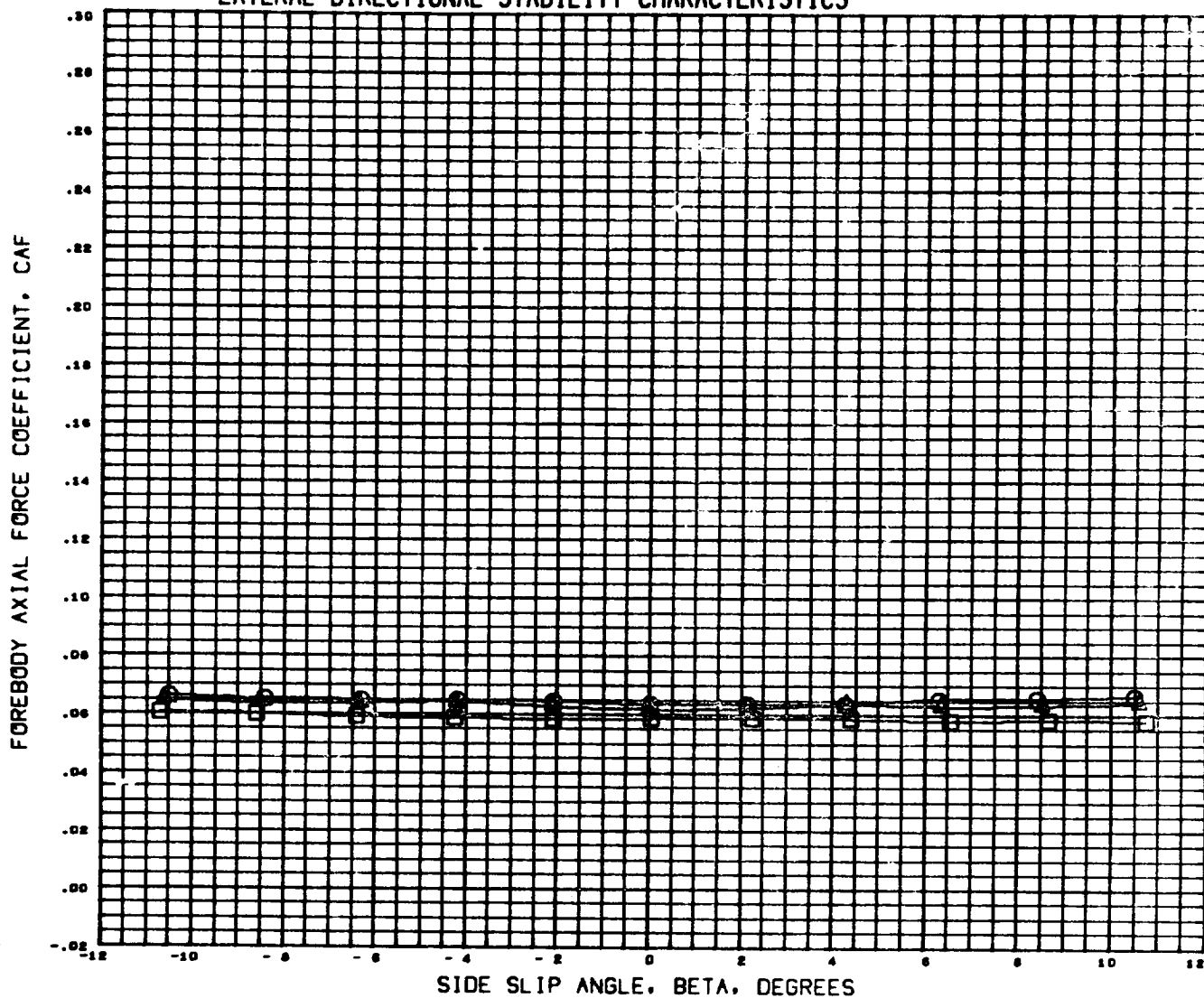
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401H) M492-NSFC AR11961-1 MODEL BZ
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 BREF 4.6225 88. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XNRP 2.4000 IN.
 YNRP 0.0000 IN.
 ZNRP 0.0000 IN.
 SCALE 0.0025

MACH 4.958

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

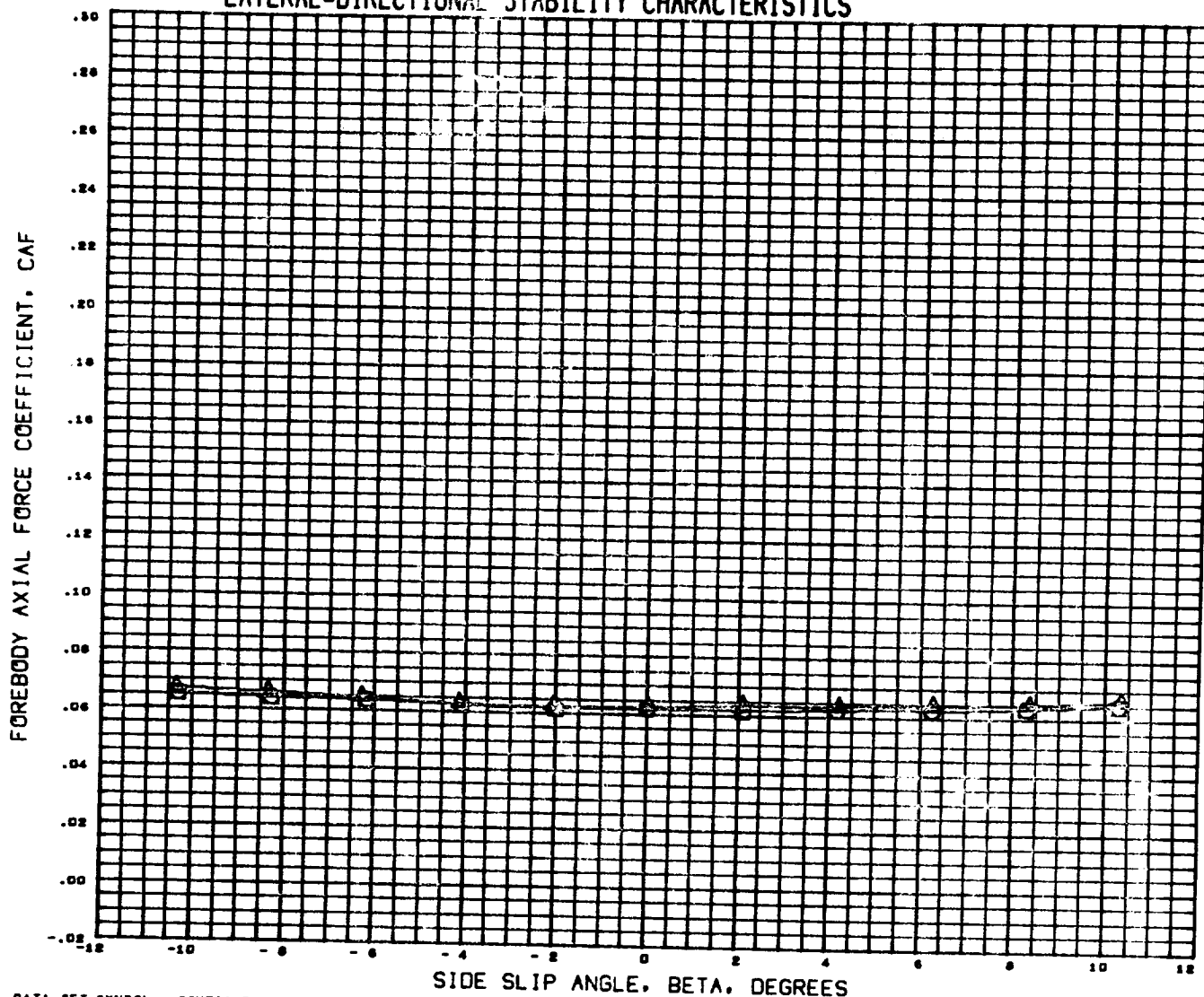
(E3401F) M492-HSFC AR11981-1 MODEL B2
 (E3401G) M492-HSFC AR11981-1 MODEL B2
 (E3401H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401I) M492-HSFC AR11981-1 MODEL B2

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 56. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

NACM 1.956

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



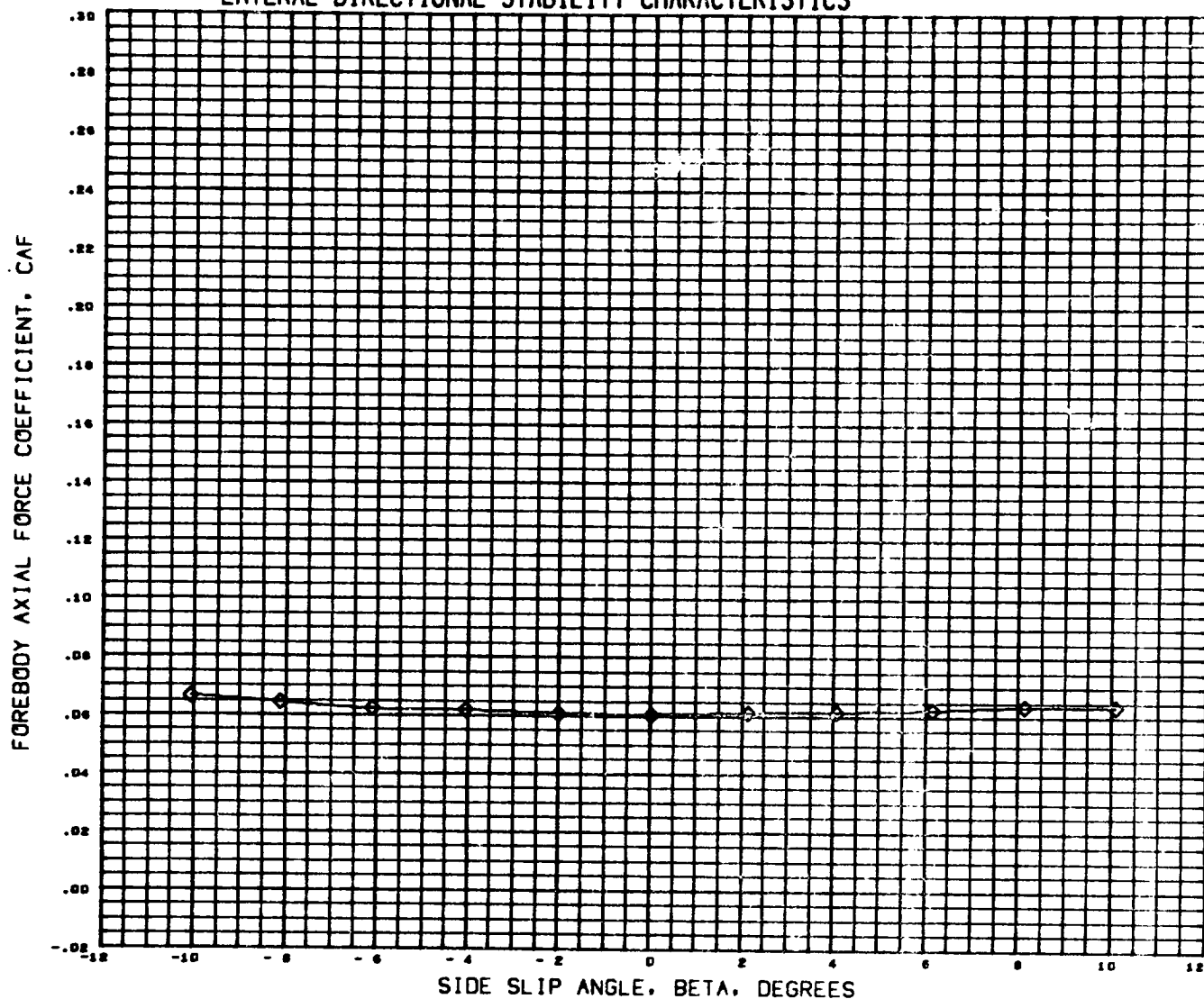
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	M492-MSFC AR11901-1 MODEL B2
(E3401G)	M492-MSFC AR11901-1 MODEL B2
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION		
SREF	4.6225	SQ. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



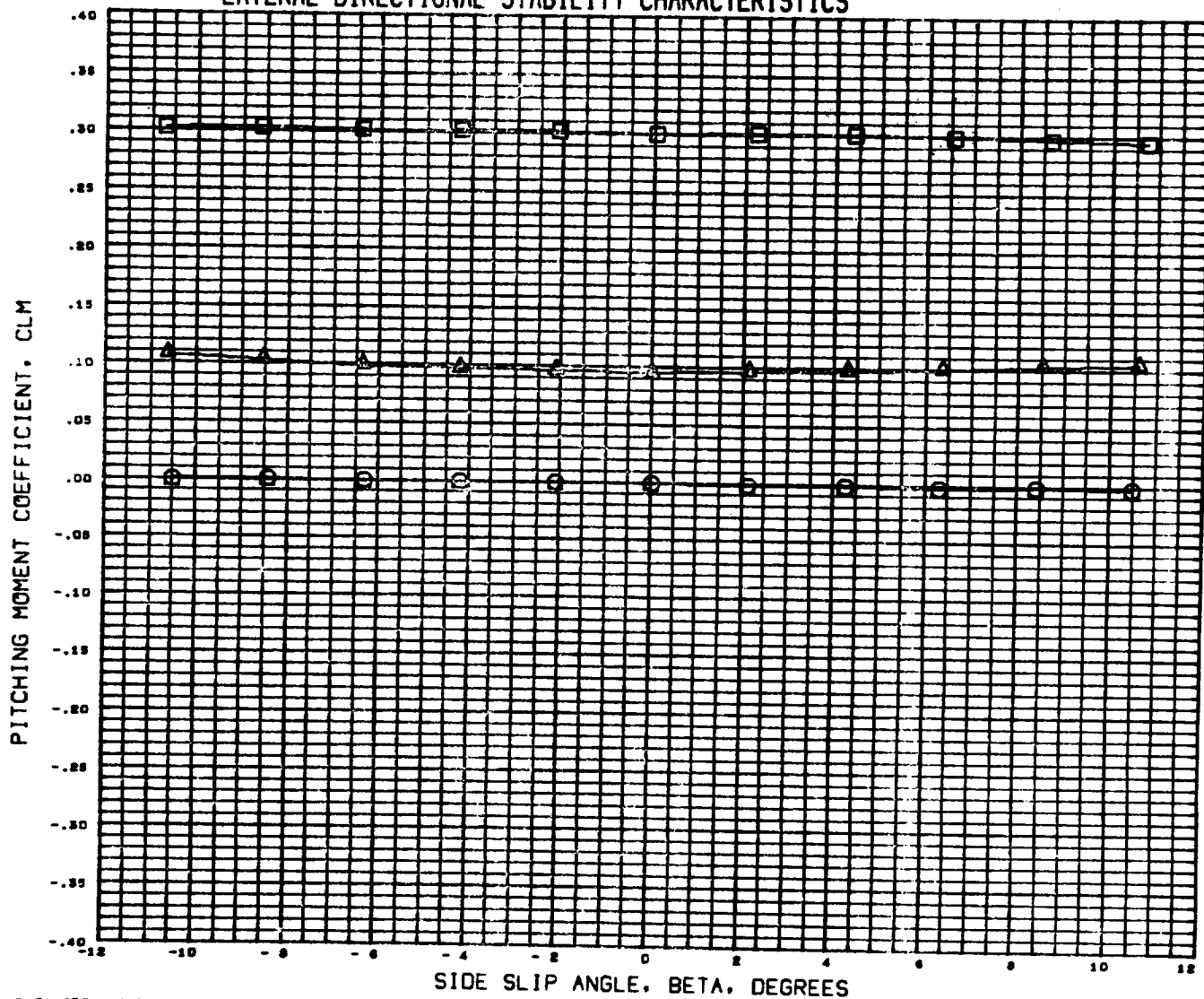
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401H) M492-MSFC AR11881-1 MODEL B2
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 4.956

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3401F) M492-MSFC AR11981-1 MODEL B2

(E3401G) M492-MSFC AR11981-1 MODEL B2

(E3401H) DATA NOT AVAILABLE FOR ALL CONDITIONS

(E3401I) M492-MSFC AR11981-1 MODEL B2

ALPHA

0.000

10.000

15.000

31.000

REFERENCE INFORMATION

SREF 4.6225 SQ. IN.

LREF 4.3000 IN.

BREF 4.3000 IN.

XMRP 2.4000 IN.

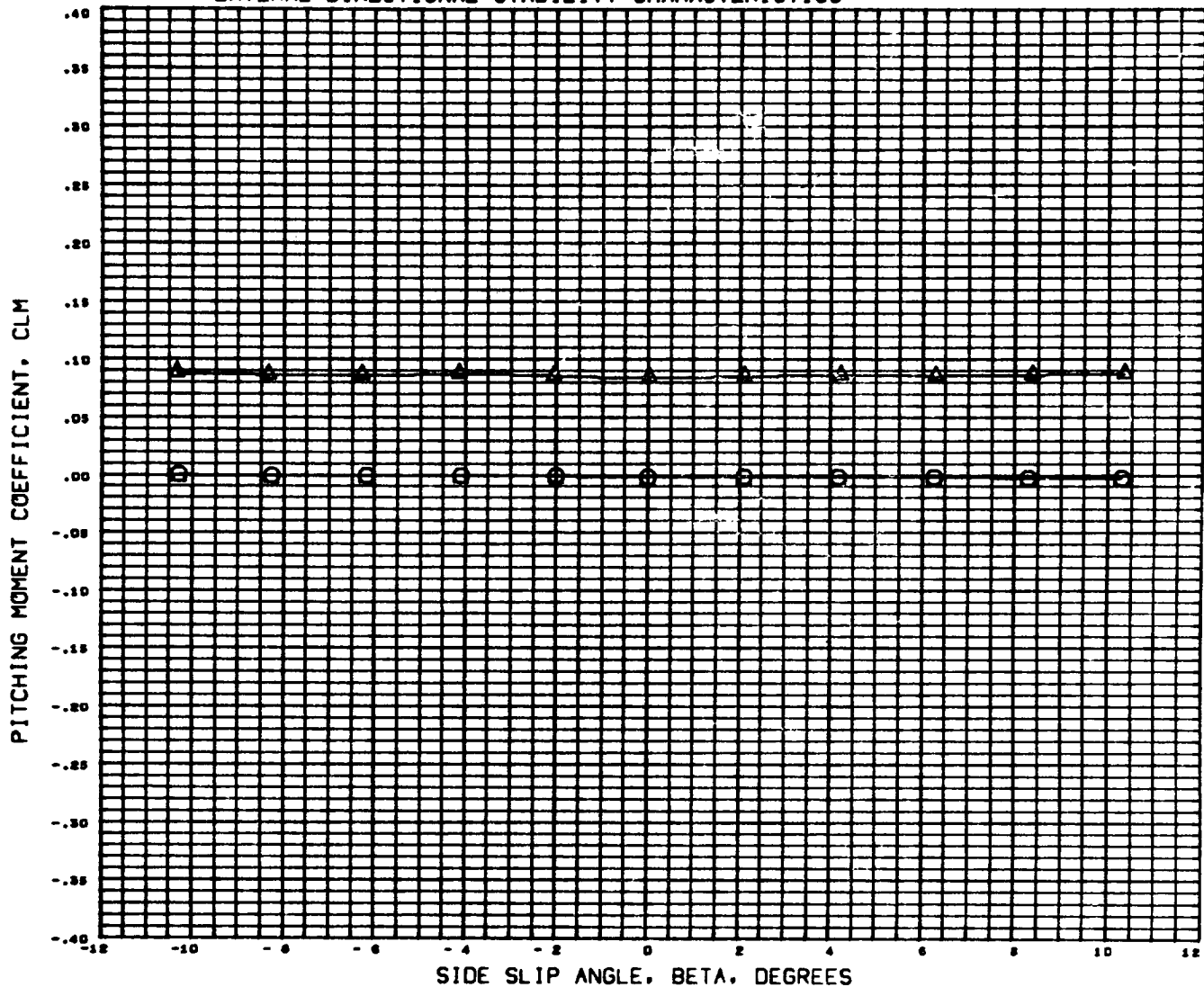
YMRP 0.0000 IN.

ZMRP 0.0000 IN.

SCALE 0.0025

NACH 1.958

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



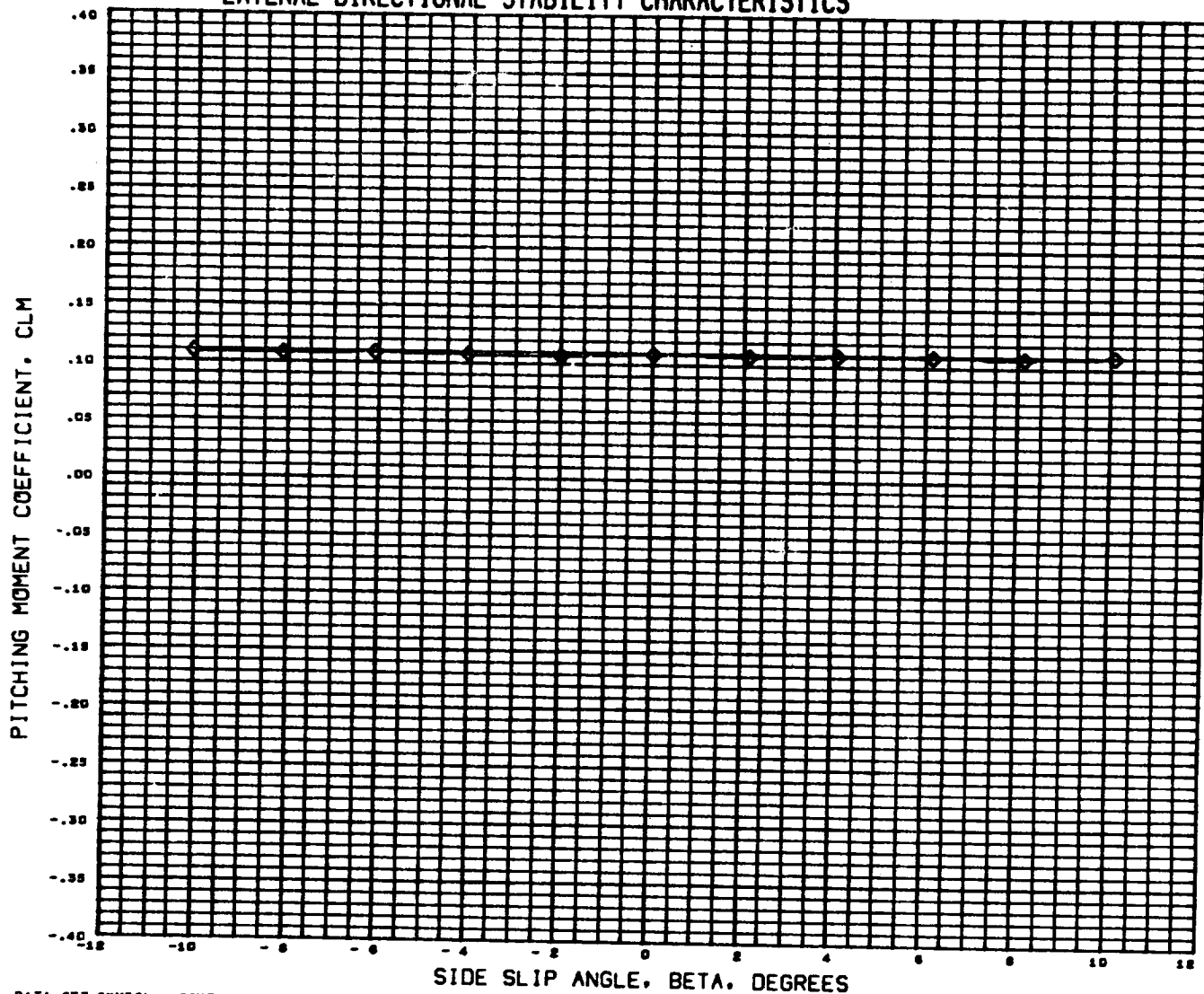
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	M492-MSFC AR11981-1 MODEL 82
(E3401G)	M492-MSFC AR11981-1 MODEL 82
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION	
BREF	4.6225 30. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XHRP	2.4000 IN.
YHRP	0.0000 IN.
ZHRP	0.0000 IN.
SCALE	0.0025

MACH 3.400

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



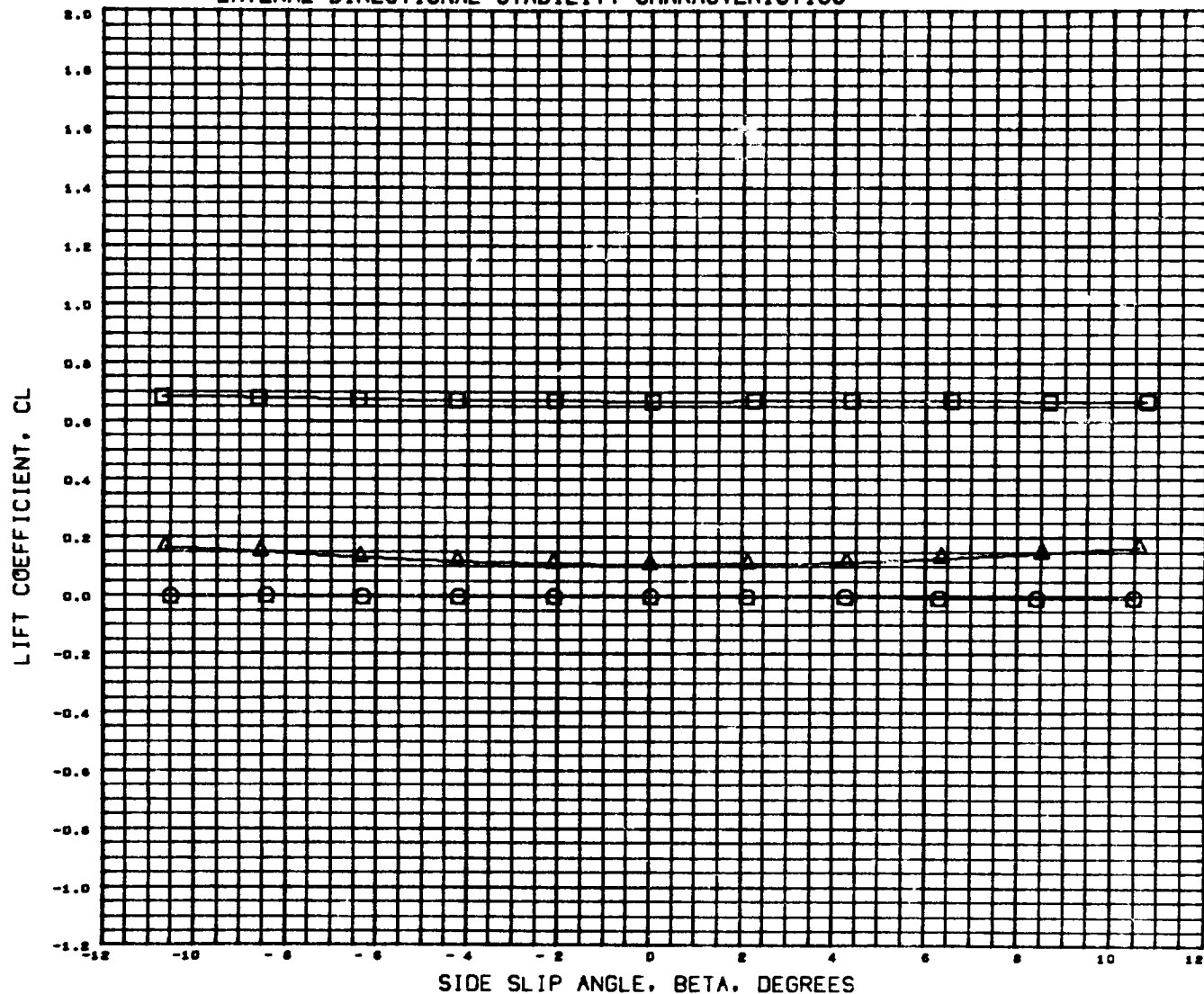
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401P) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401H) M402-MSFC AR1001-1 MODEL B2
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 88. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 4.958

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



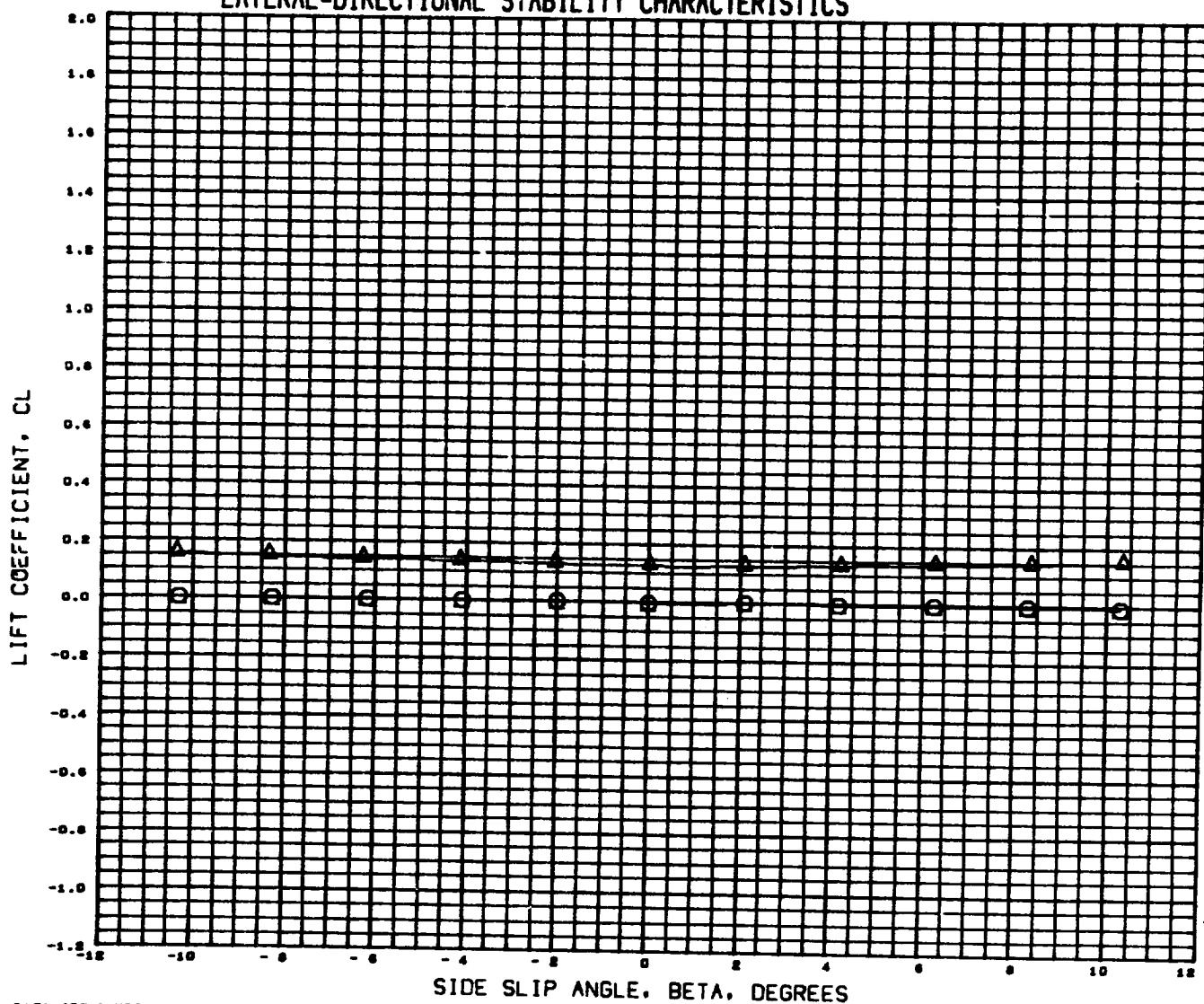
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E34D1F) M492-HSFC AR11981-1 MODEL B2
 (E34D1G) M492-HSFC AR11981-1 MODEL B2
 (E34D1H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E34D1I) M492-HSFC AR11981-1 MODEL B2

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.956

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



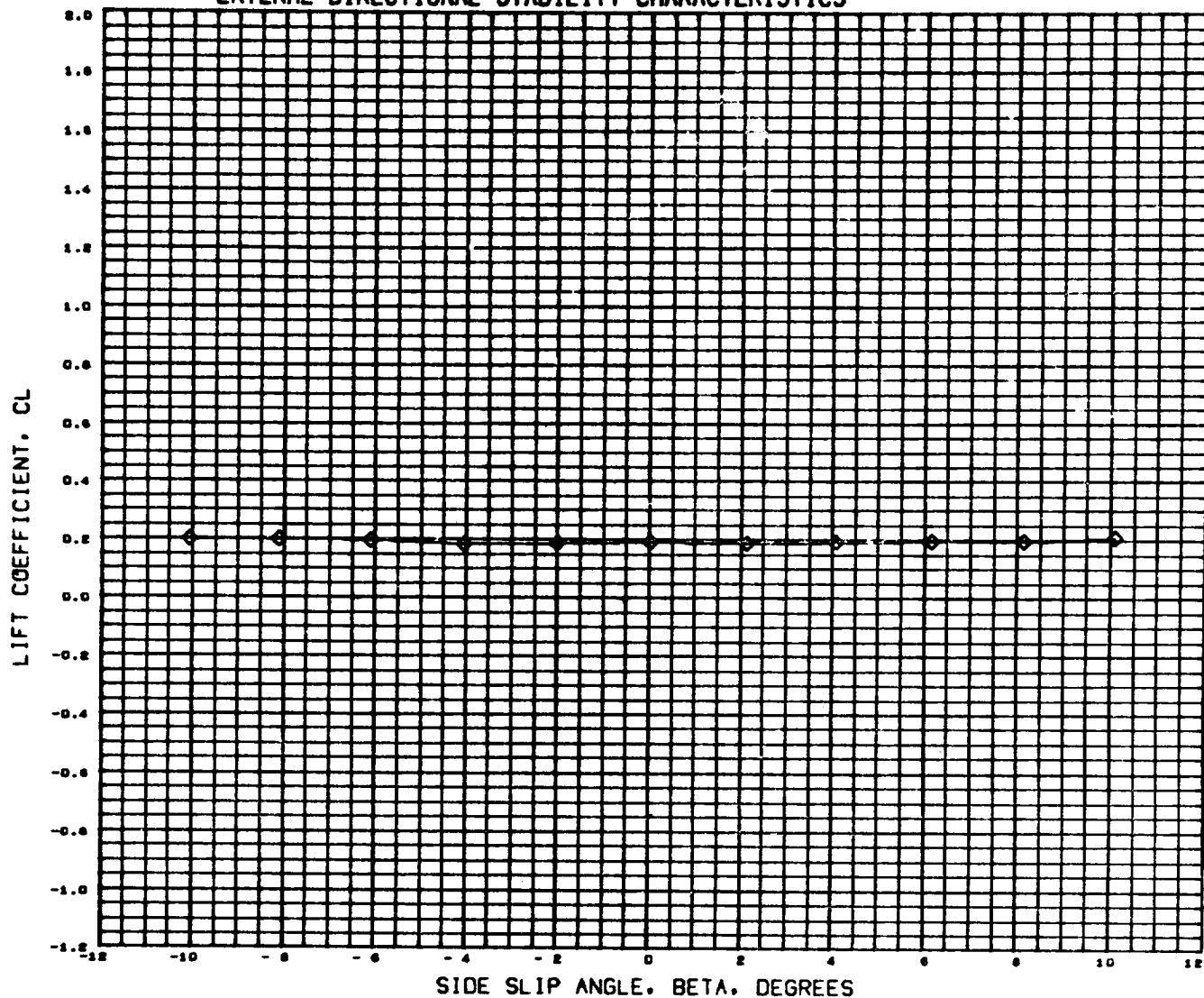
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) M492-MSFC AR11901-1 MODEL B2
 (E3401G) M492-MSFC AR11901-1 MODEL B2
 (E3401H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 88-IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



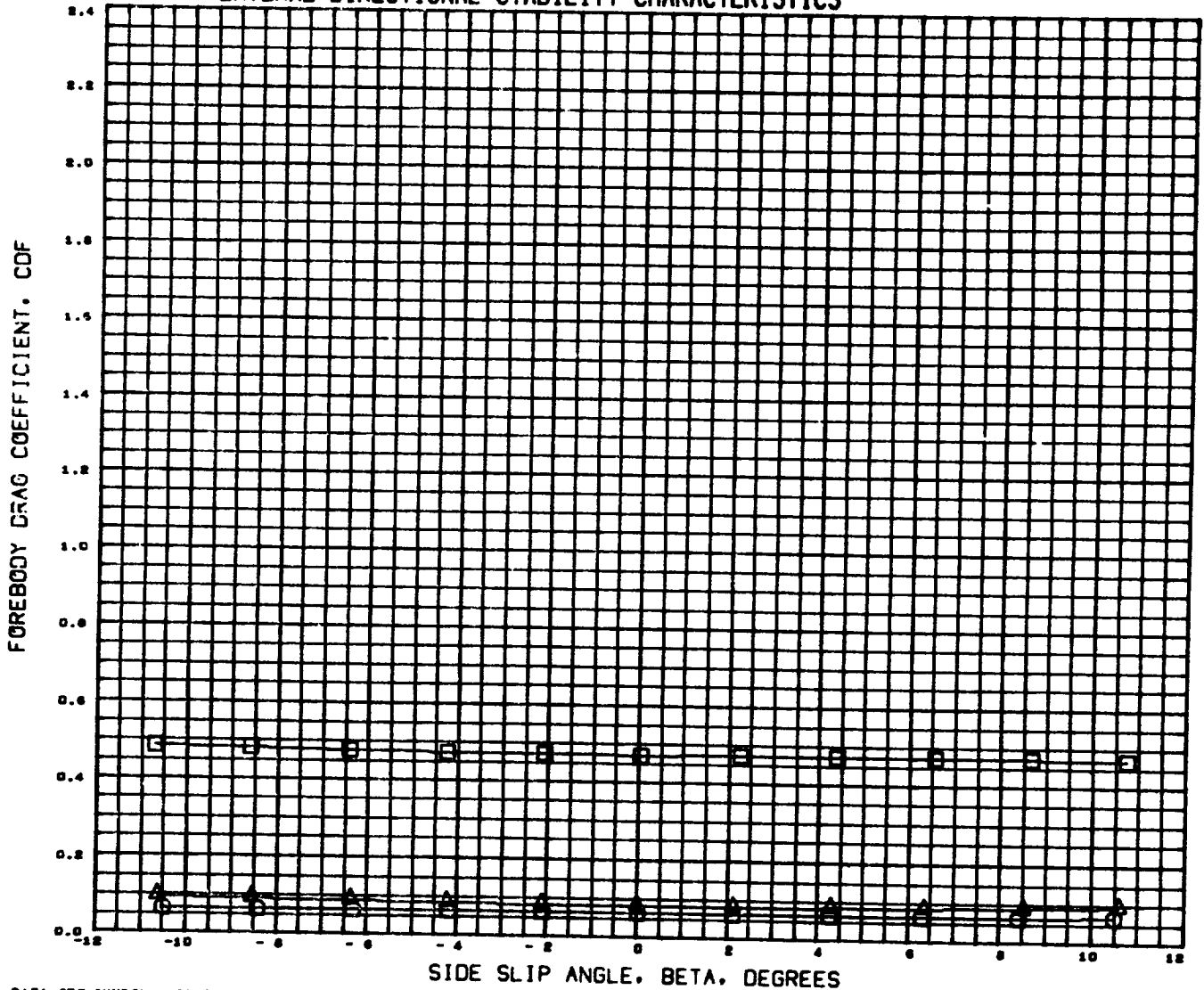
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3403F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3403G)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3403H)	M492-MSFC AR11901-1 MODEL B2
(E3403I)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION	
SREF	4.6225 50 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



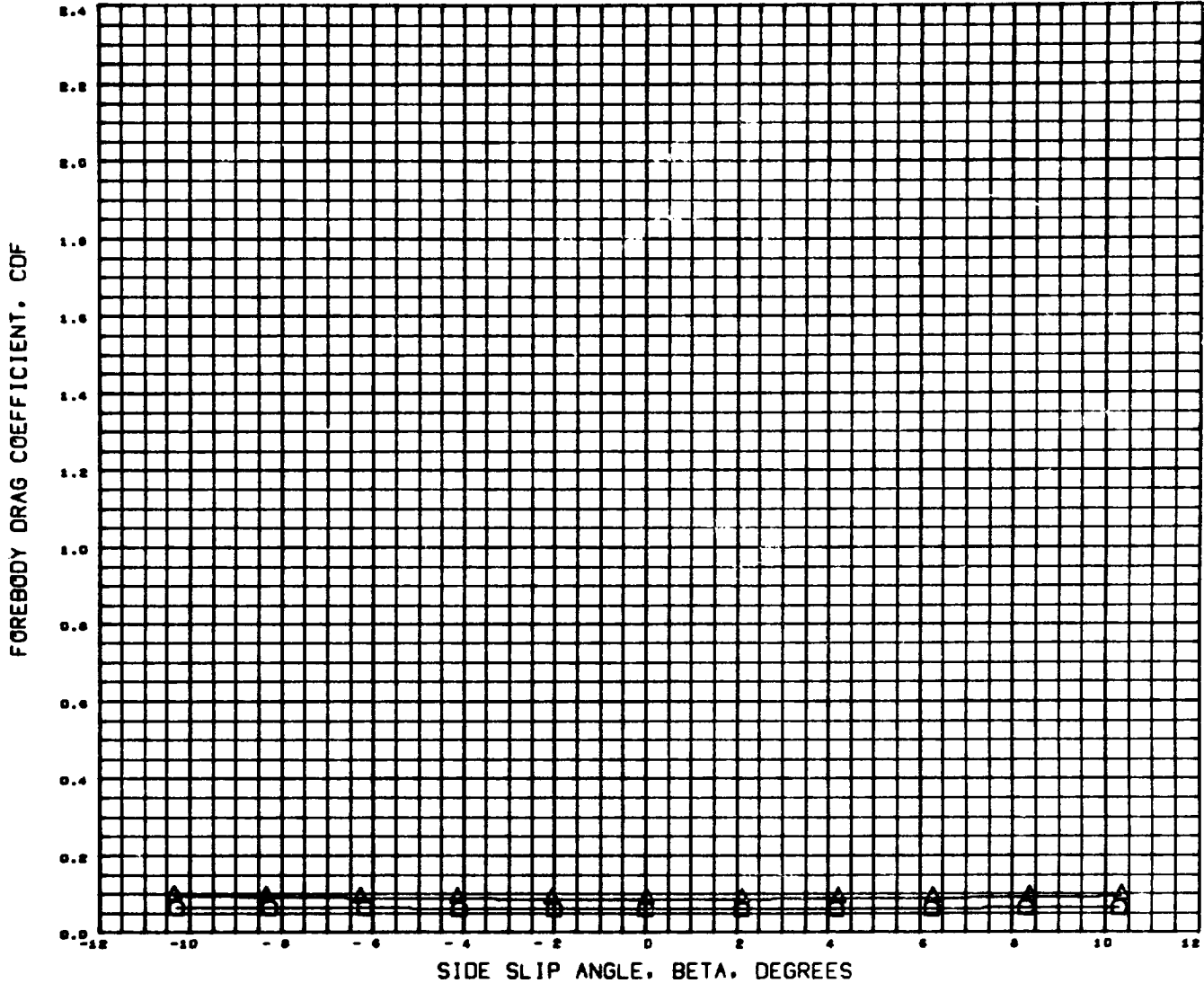
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	M492-HSFC AR11991-1 MODEL B2
(E3401G)	M492-HSFC AR11991-1 MODEL B2
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	M492-HSFC AR11991-1 MODEL B2

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION	
SREF	4.4225 sq. in.
LREF	4.3000 in.
SRF	4.3000 in.
XMRP	2.4000 in.
YMRP	0.0000 in.
ZMRP	0.0000 in.
SCALE	0.0029

MACH 1.056

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



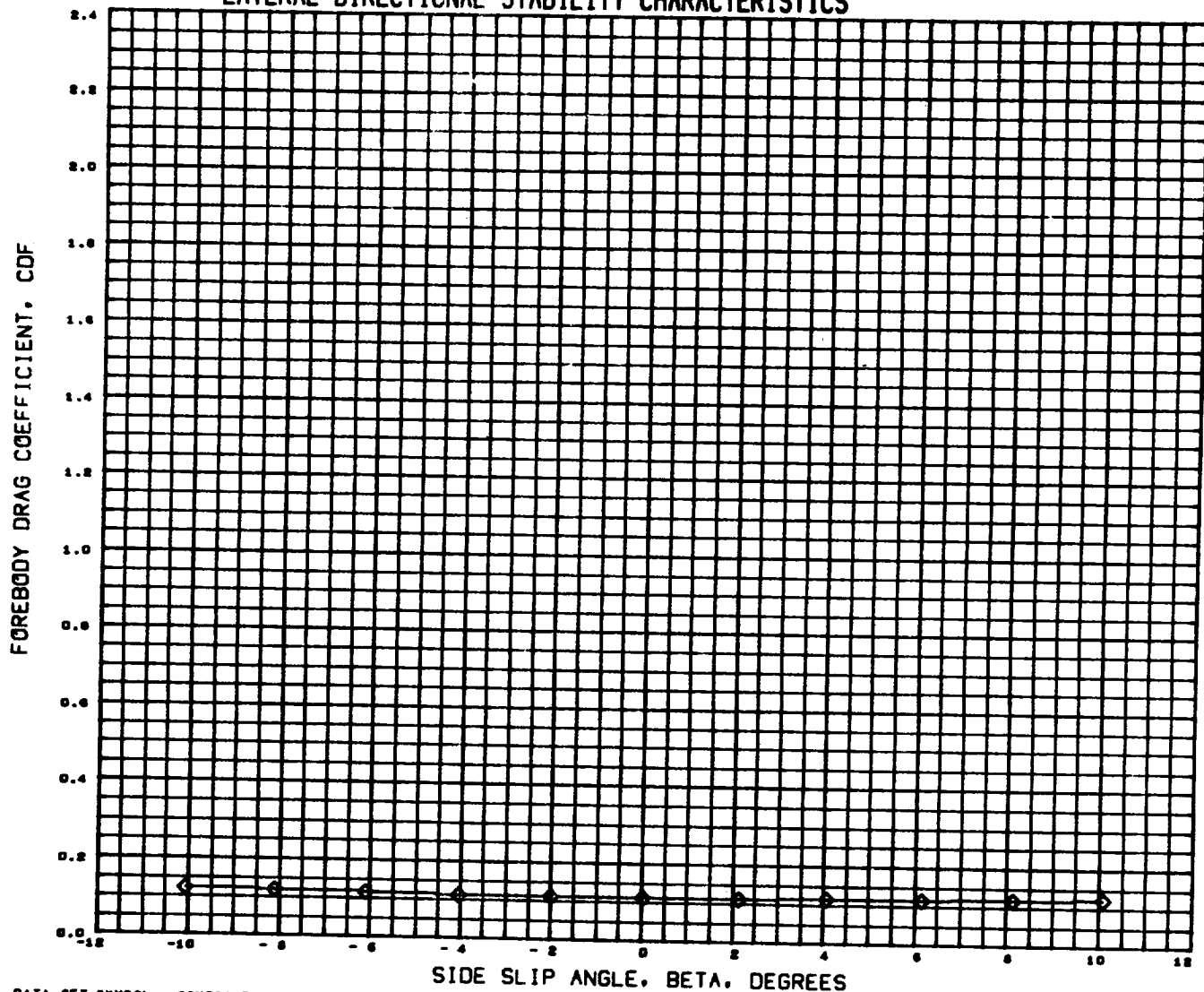
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	N492-MSFC AR11981-1 MODEL B2
(E3401G)	N492-MSFC AR11981-1 MODEL B2
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION	
BREF	4.6225 SQ. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



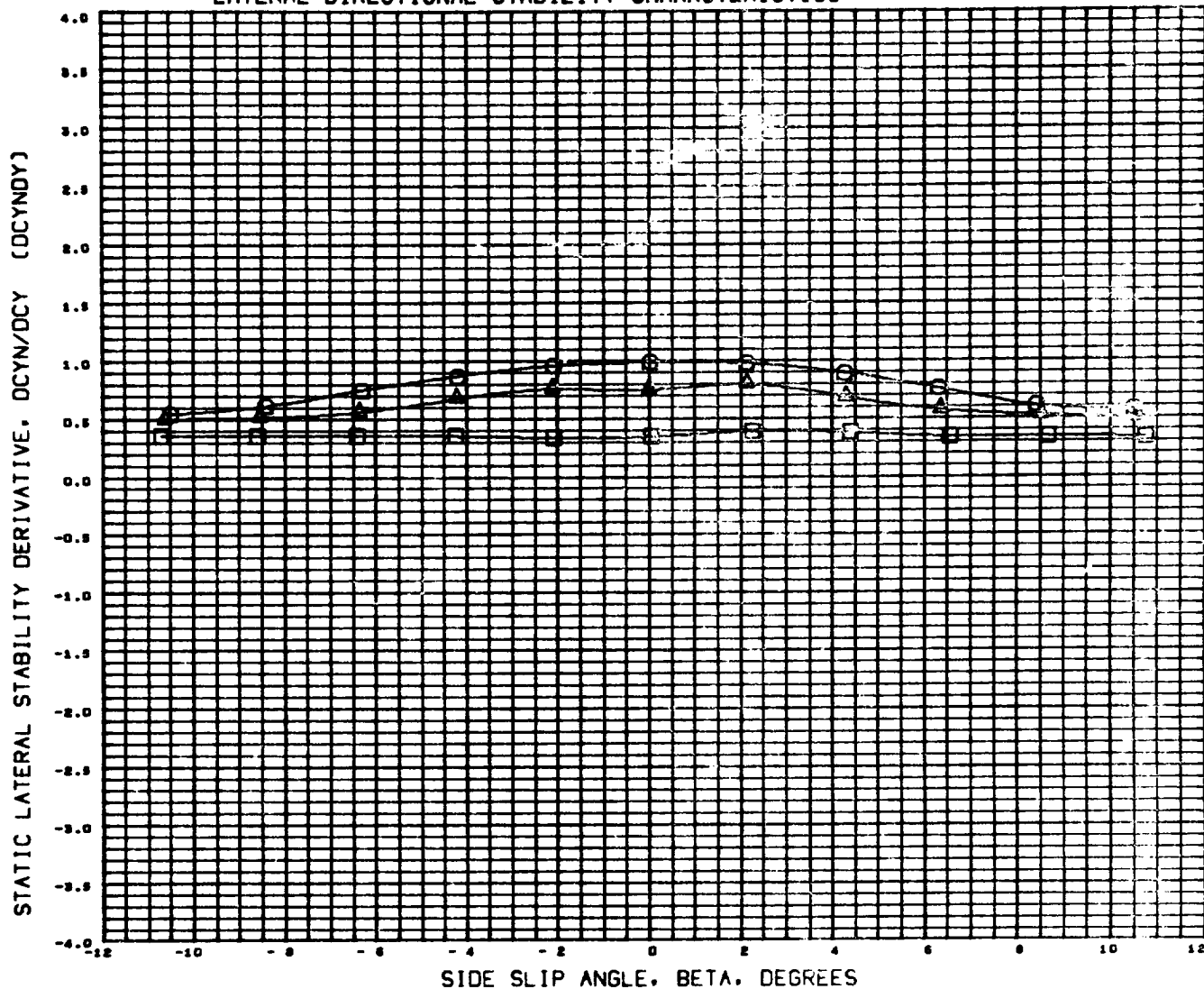
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3401F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3401H) M492-M8PC AR11901-1 MODEL B2
 (E3401I) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
 0.000
 10.000
 15.000
 31.000

REFERENCE INFORMATION
 SREF 4.6225 90. IN.
 LREF 4.3000 IN.
 SREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0029

MACH 4.950

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	N492-HSFC AR11981-1 MODEL B2
(E3401G)	N492-HSFC AR11981-1 MODEL B2
(E3401H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401I)	N492-HSFC AR11981-1 MODEL B2

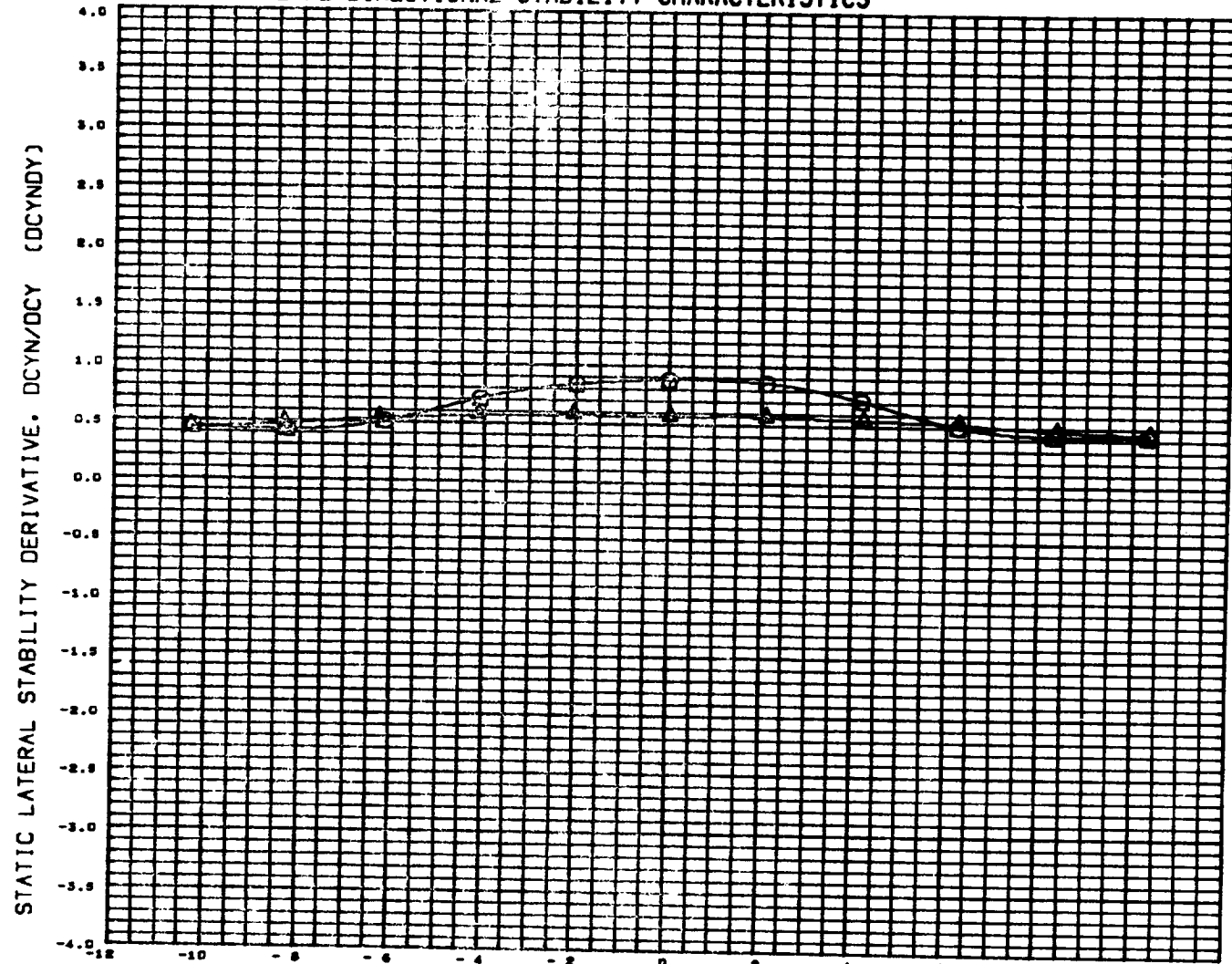
ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
YMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.956

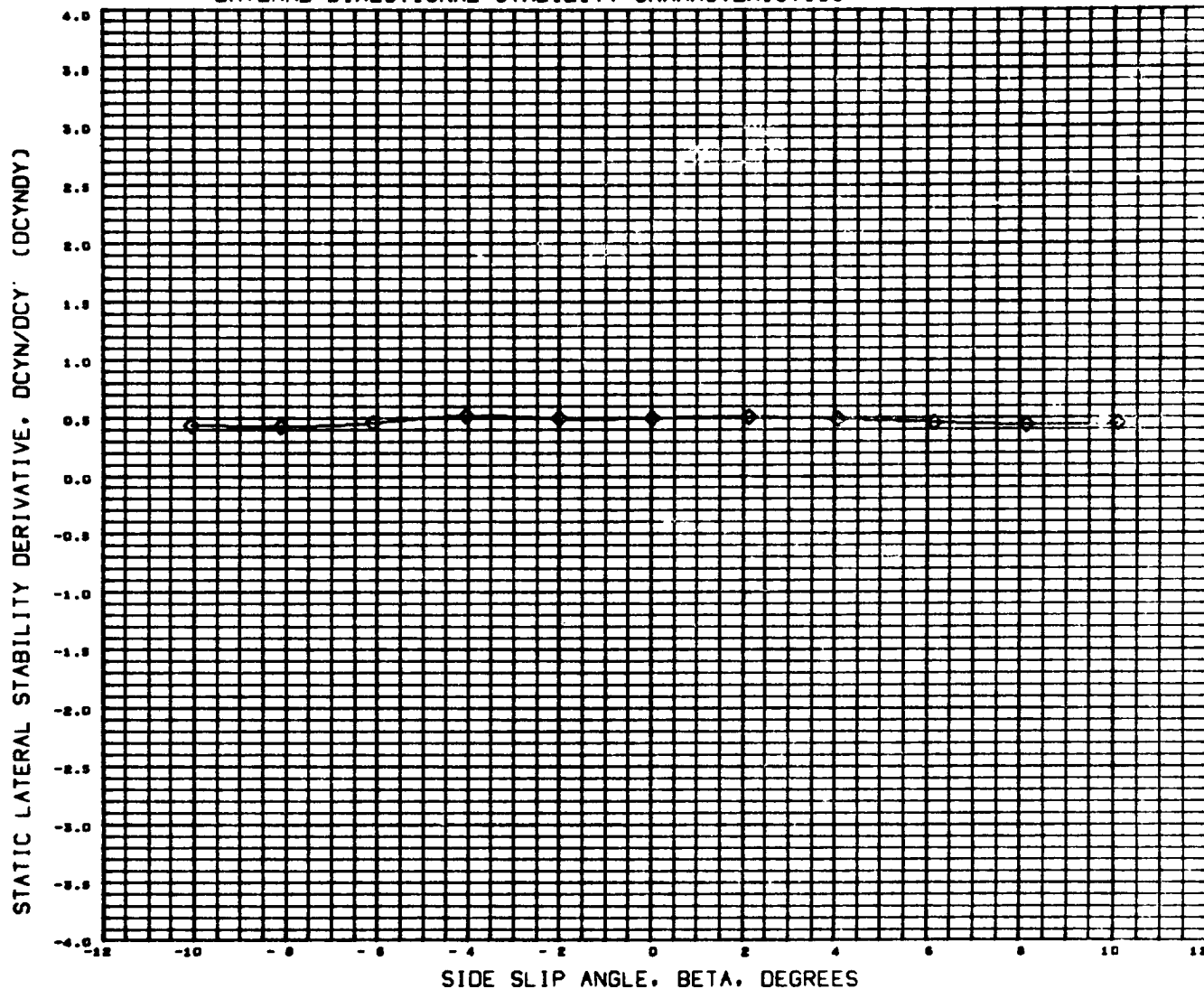
④ 9

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA	REFERENCE INFORMATION	
(E3401F)	○	N492-MSFC	AR1981-1 MODEL B2	0.000	SREF	4.6225 88. IN.
(E3401G)	△	N492-MSFC	AR1981-1 MODEL B2	10.000	LRCP	4.3000 IN.
(E3401H)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		15.000	BRCP	4.3000 IN.
(E3401I)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS		31.000	XMRP	2.4000 IN.
					YMRP	0.0000 IN.
					ZMRP	0.0000 IN.
					SCALE	0.0025
MACH		3.480				

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



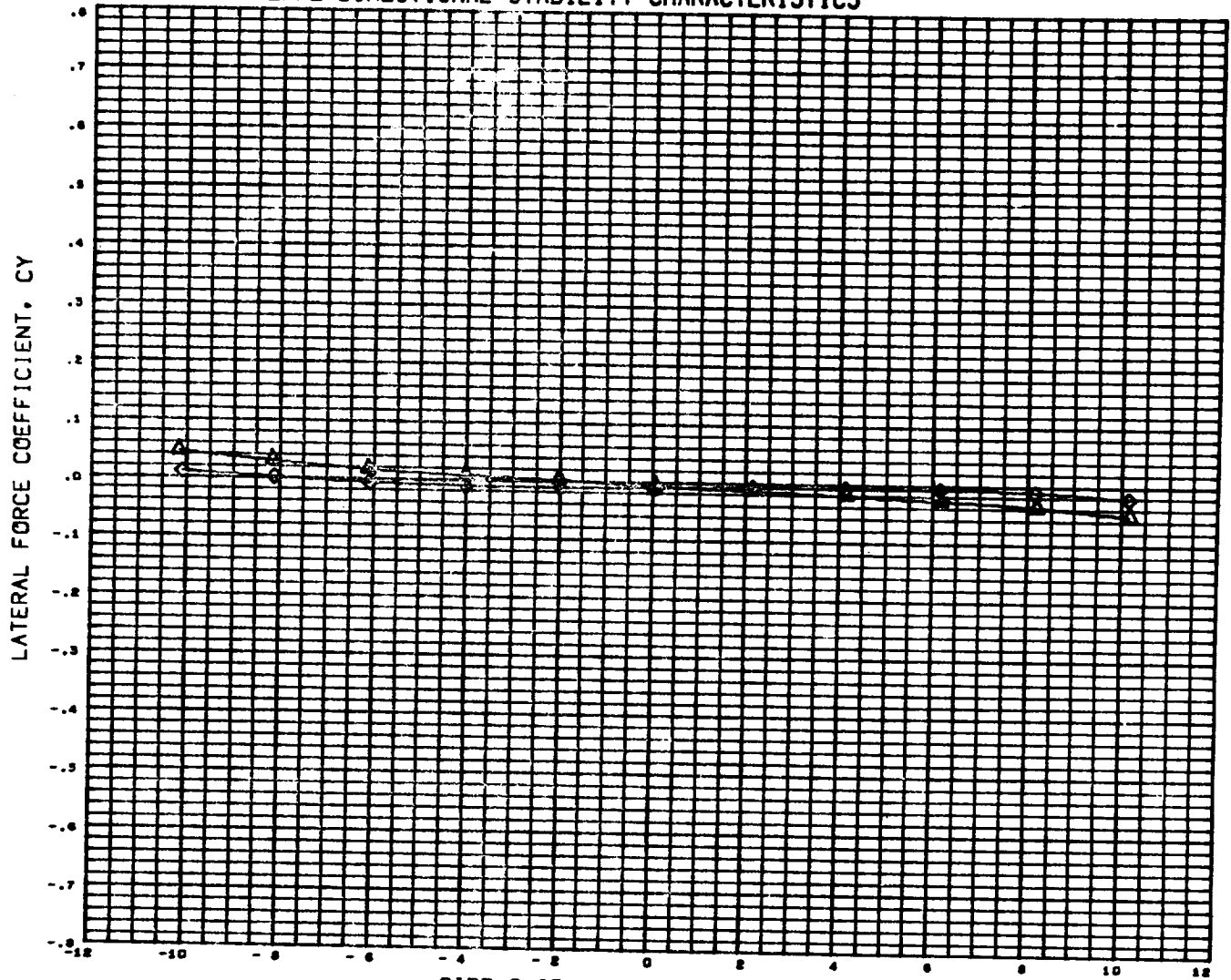
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3401F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E34016)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3401M)	M492-MSFC AR11981-1 MODEL B2
(E34011)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA
0.000
10.000
15.000
31.000

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



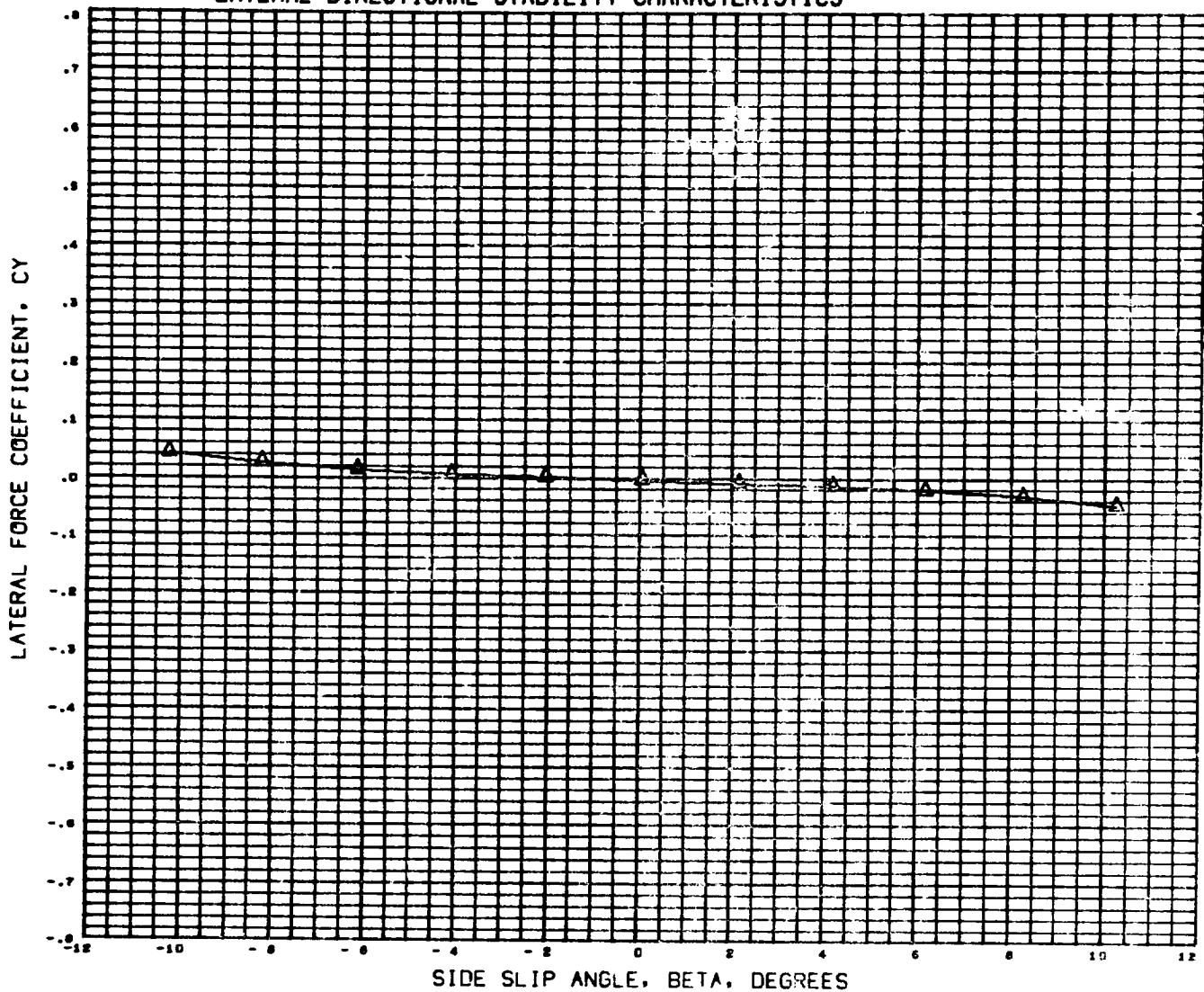
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-MSFC AR11981-1 MODEL B2C12
 (E3402H) M492-MSFC AR11981-1 MODEL B2C12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.000 0.000
 21.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 88.1N.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.607

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



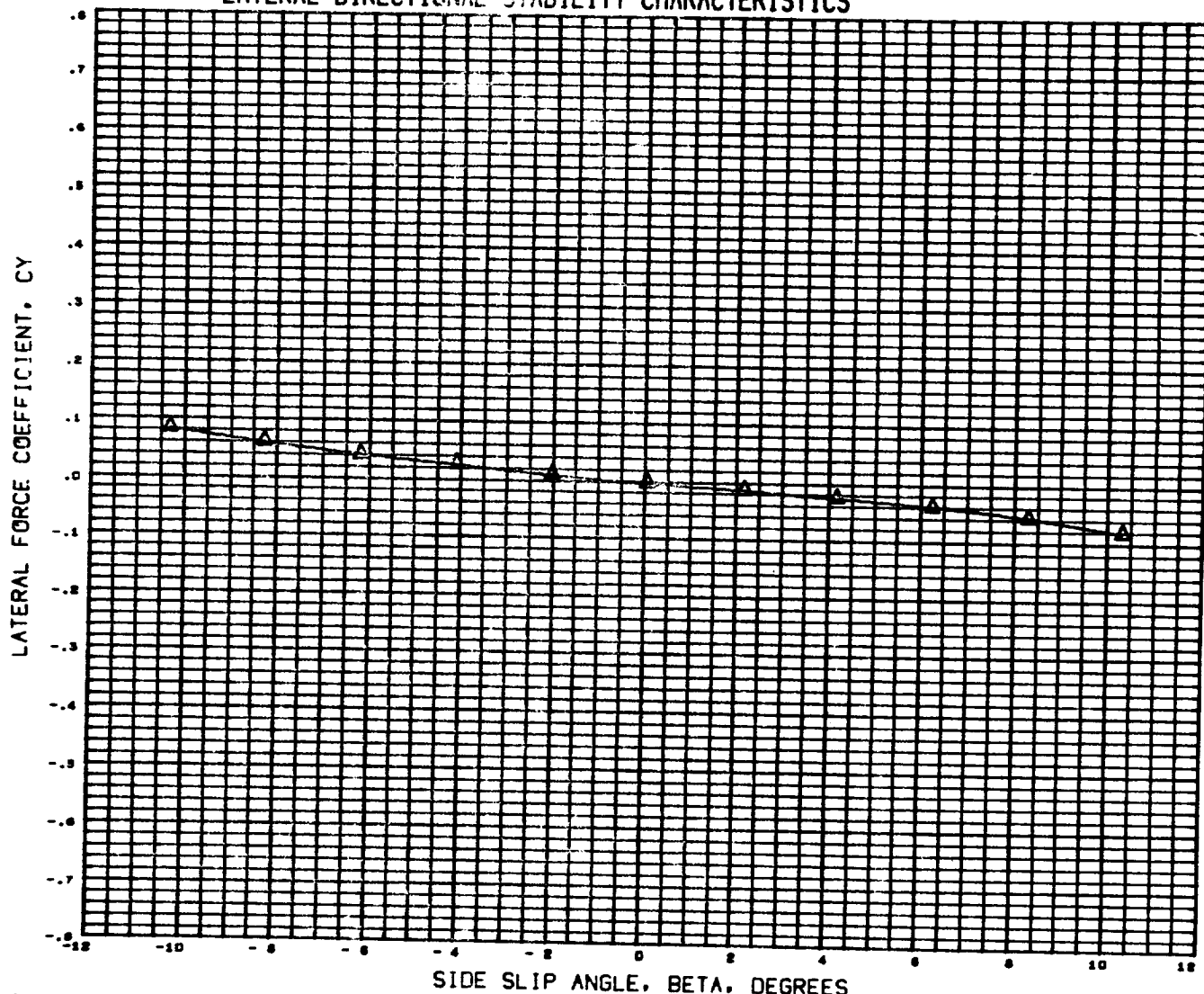
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-WBFC AR11981-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 51.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 50.1N
 LREF 4.3000 1N.
 BREF 4.3000 1N.
 XMRP 2.4000 1N.
 YMRP 0.0000 1N.
 ZMRP 0.0000 1N.
 SCALE 0.0025

MACH 0.098

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



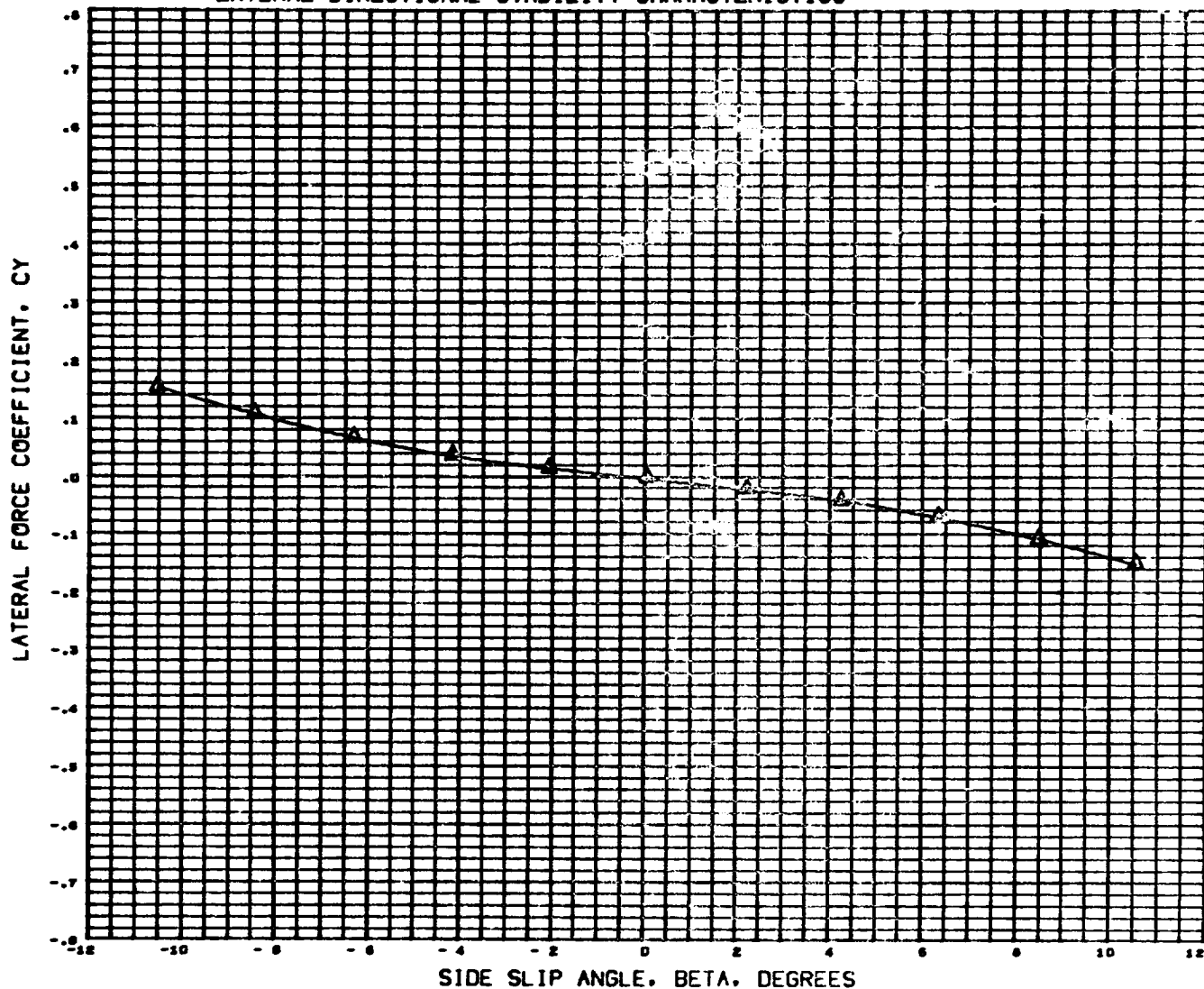
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-NSFC AR11981-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	86. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



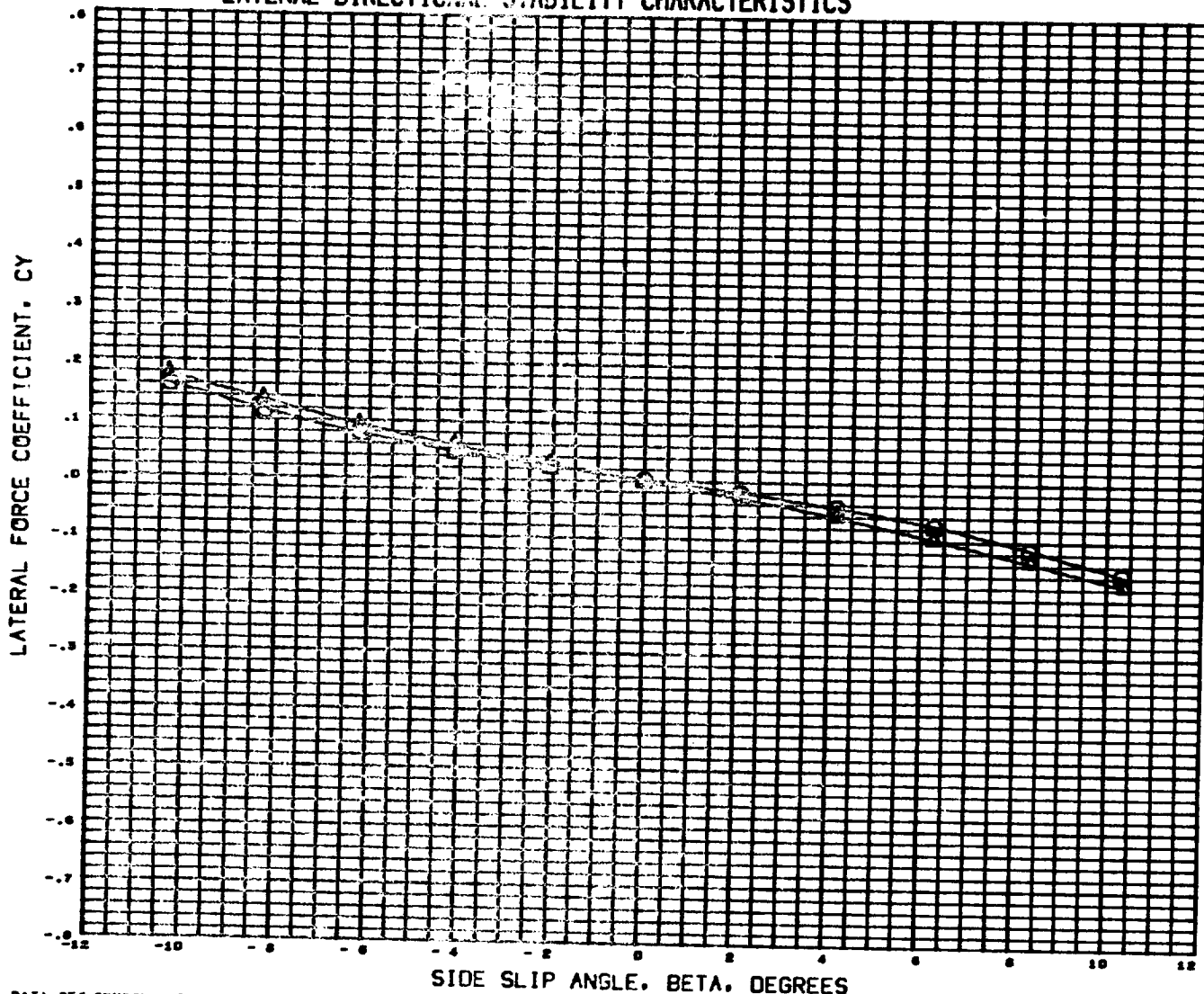
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E9408F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E9408G) M492-NSFC AR11991-1 MODEL BSC12
 (E9408H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E9408J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
21.000	0.000

REFERENCE INFORMATION
 SREF 4.6225 88 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.938

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



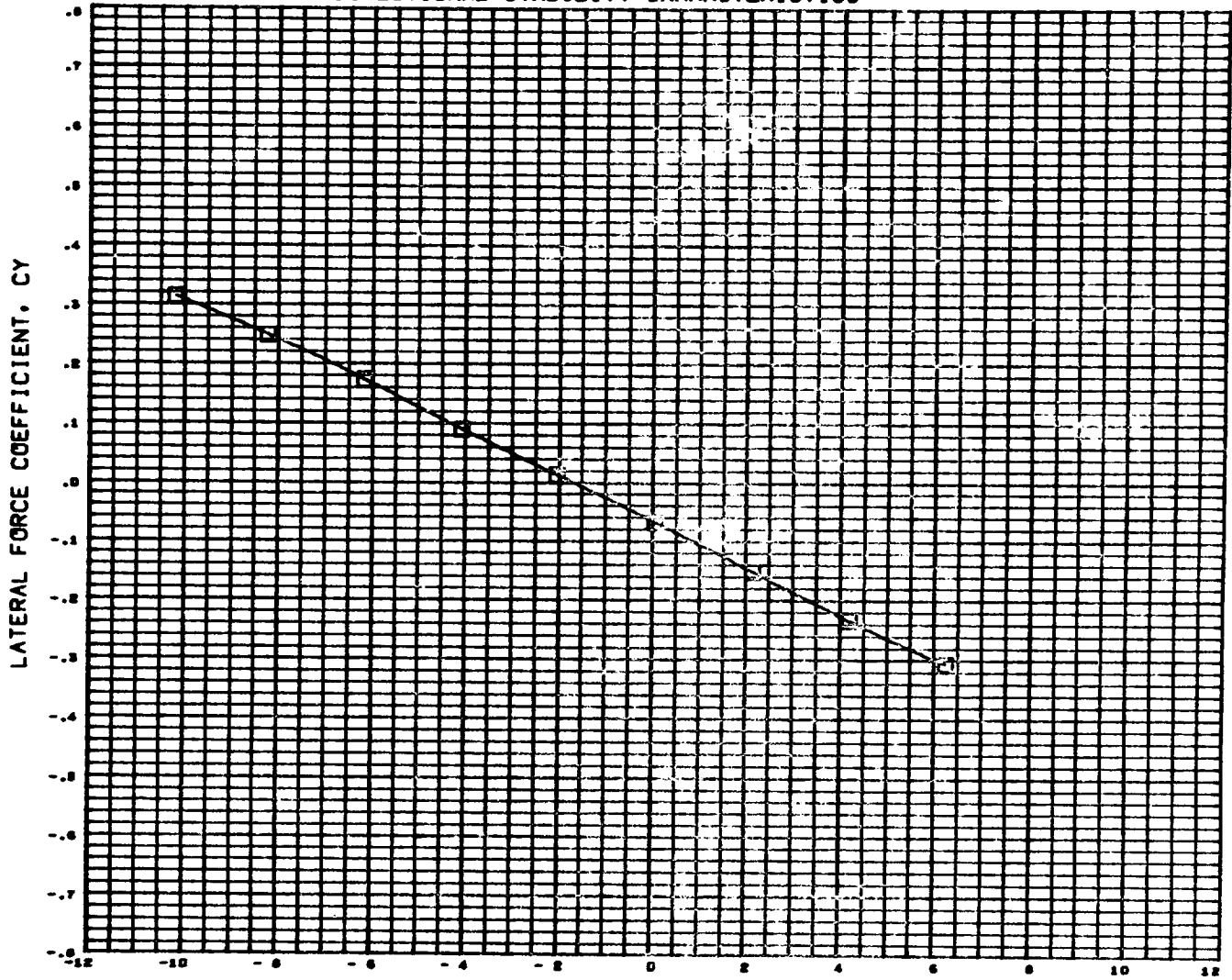
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) M492-M2FC AR1190I-1 MODEL B2C12
 (E3402G) M492-M2FC AR1190I-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.000 0.000
 21.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 30.1N.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 3.400

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



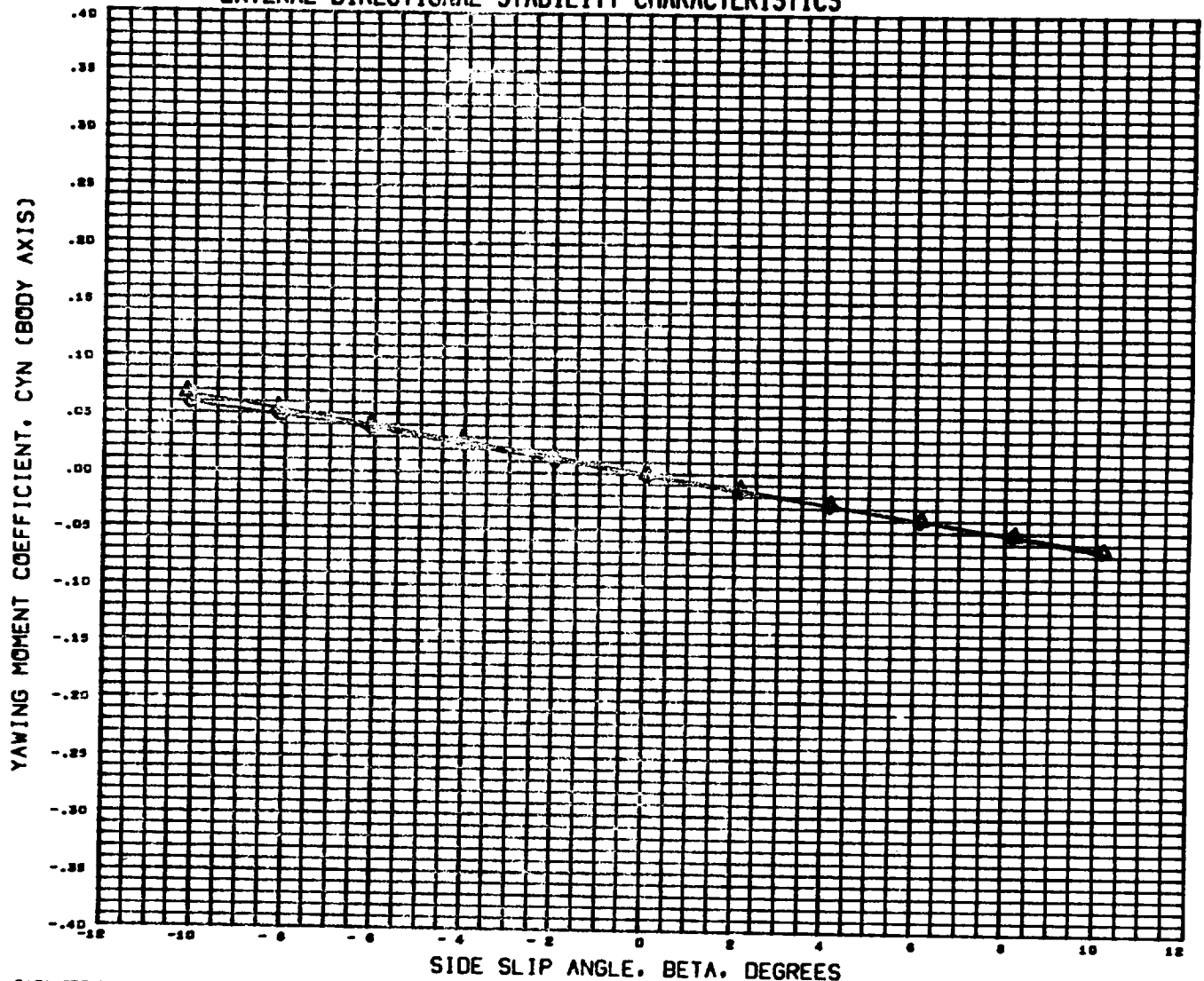
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) M492-N8FC AR11981-1 MODEL B2C12

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.000 0.000
 21.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 80.IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



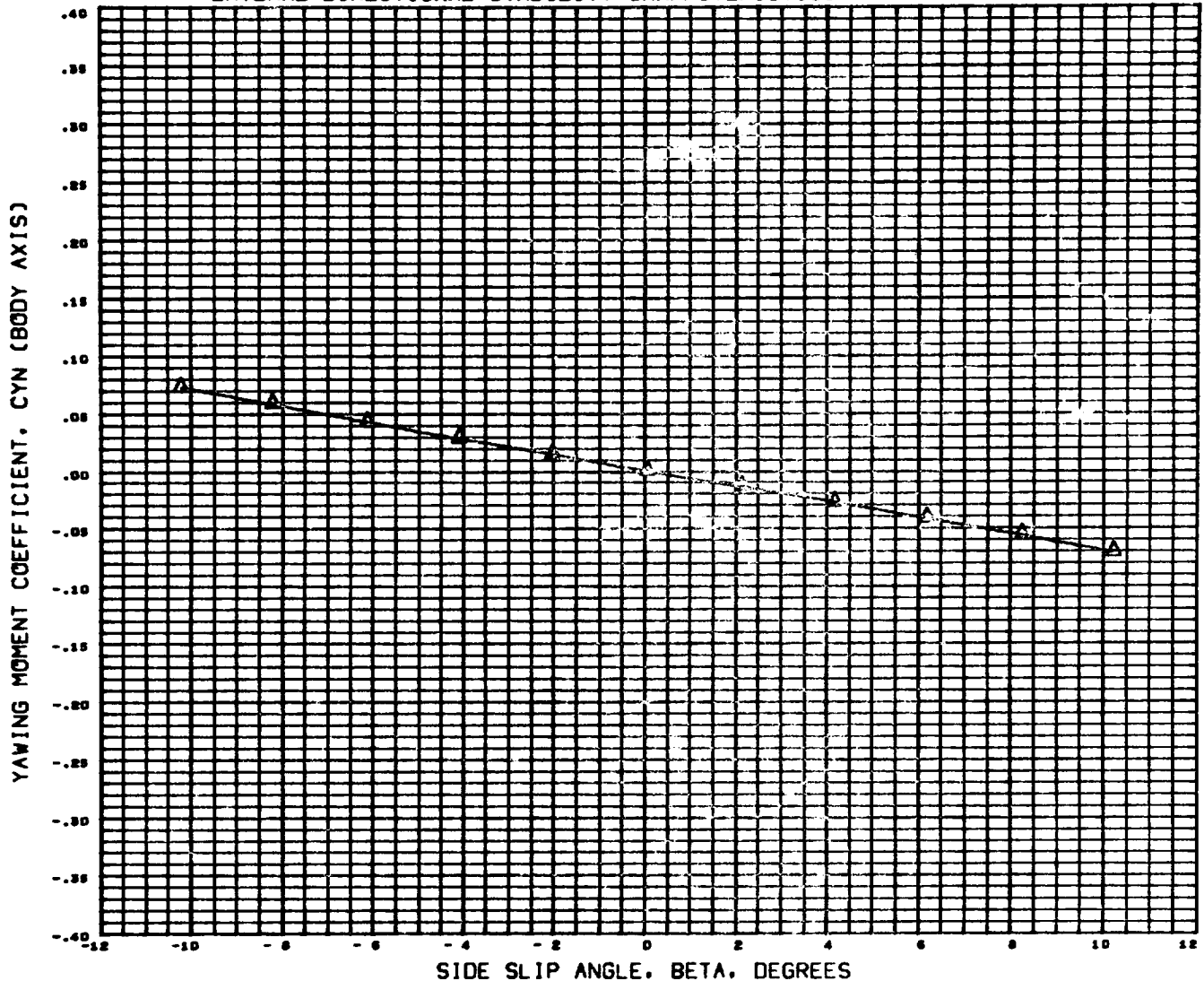
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-HSFC AR11981-1 MODEL B2C12
 (E3402H) M492-HSFC AR11981-1 MODEL B2C12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
31.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 88 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

RACH 0.607

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



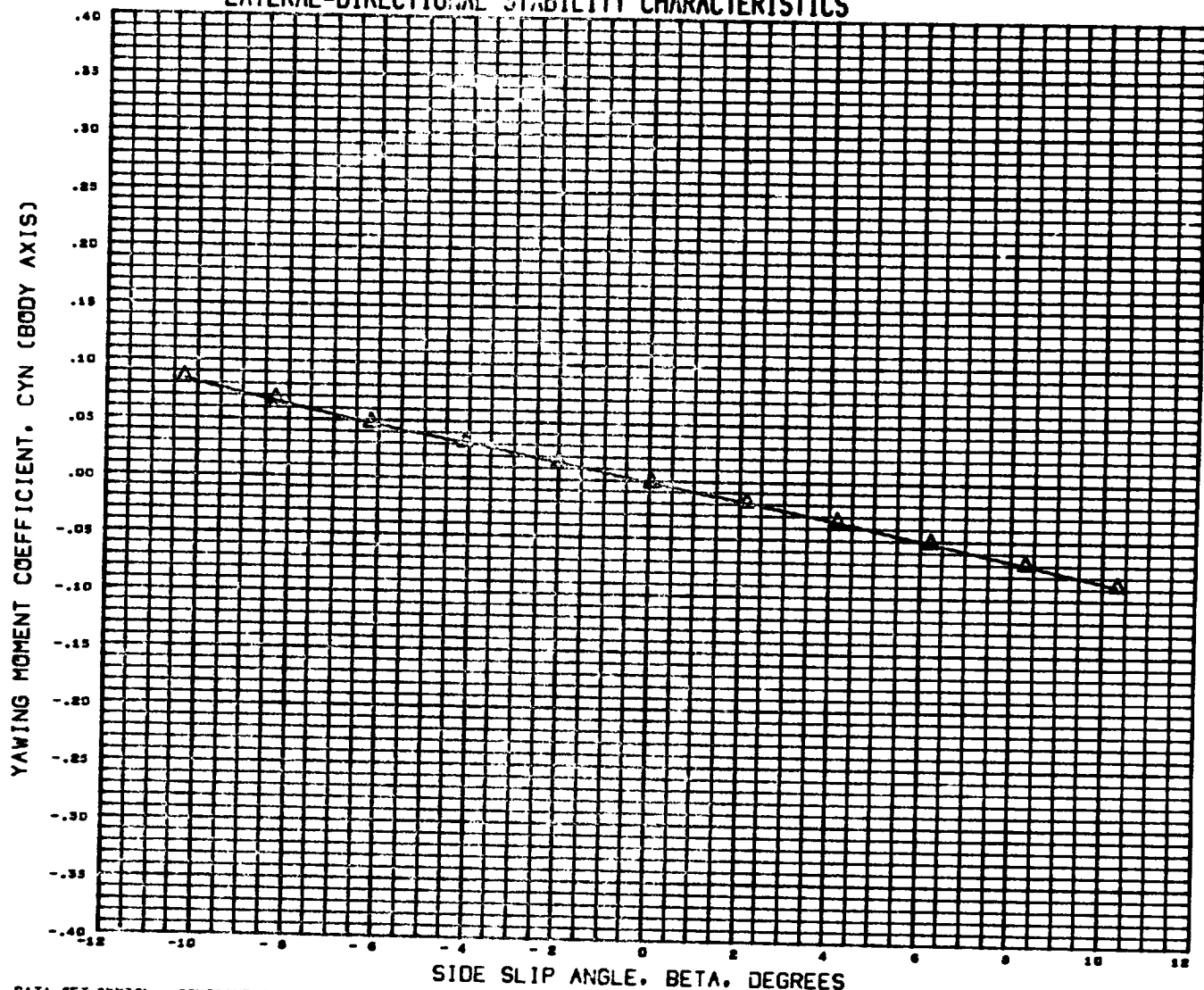
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402G)	N492-WSFC ARI1881-1 MODEL B2C12
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	88. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.898

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



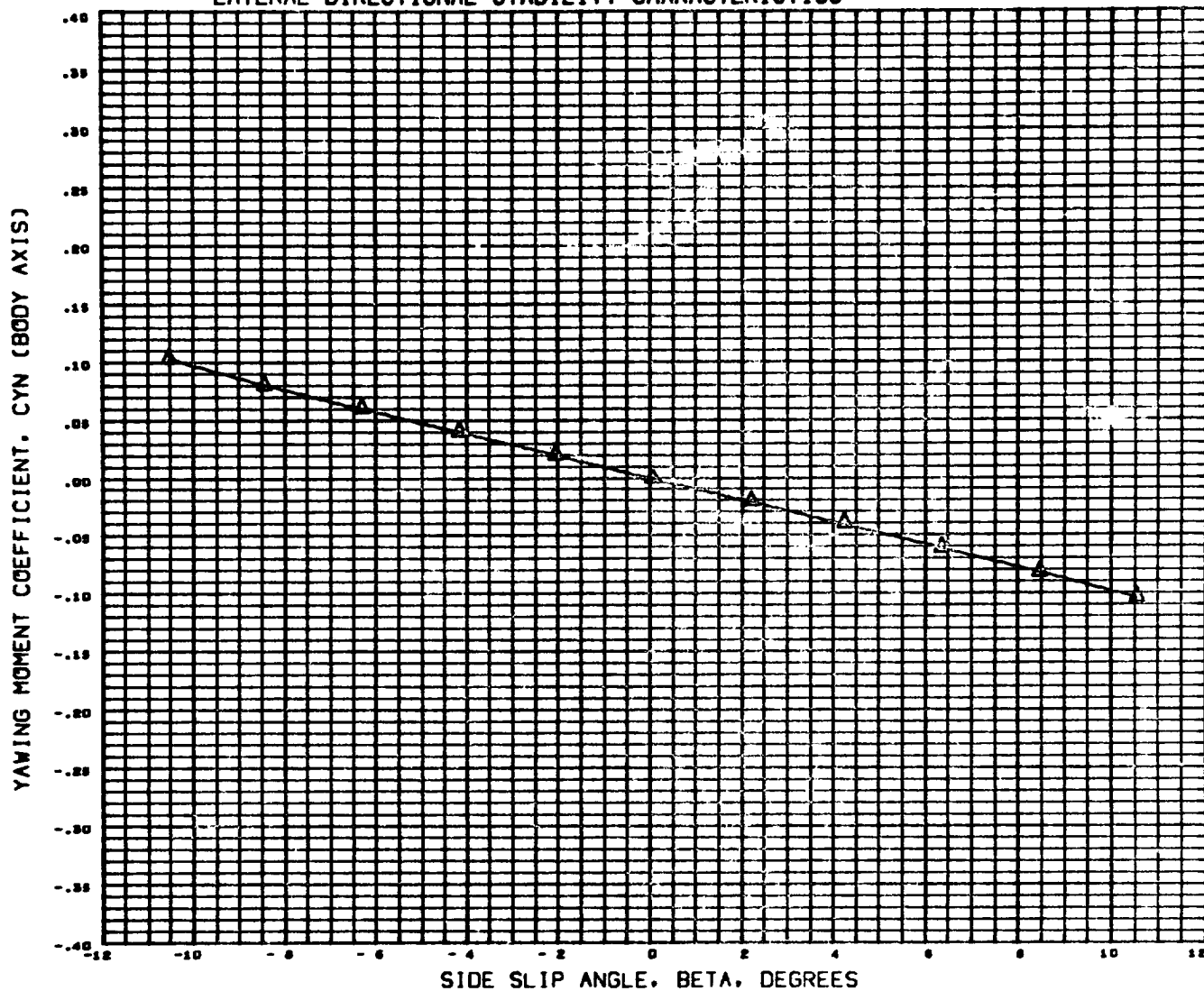
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E340ZF) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E340ZG) M492-NB7C AR11881-1 MODEL B2C12
 (E340ZH) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E340ZJ) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	80.IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



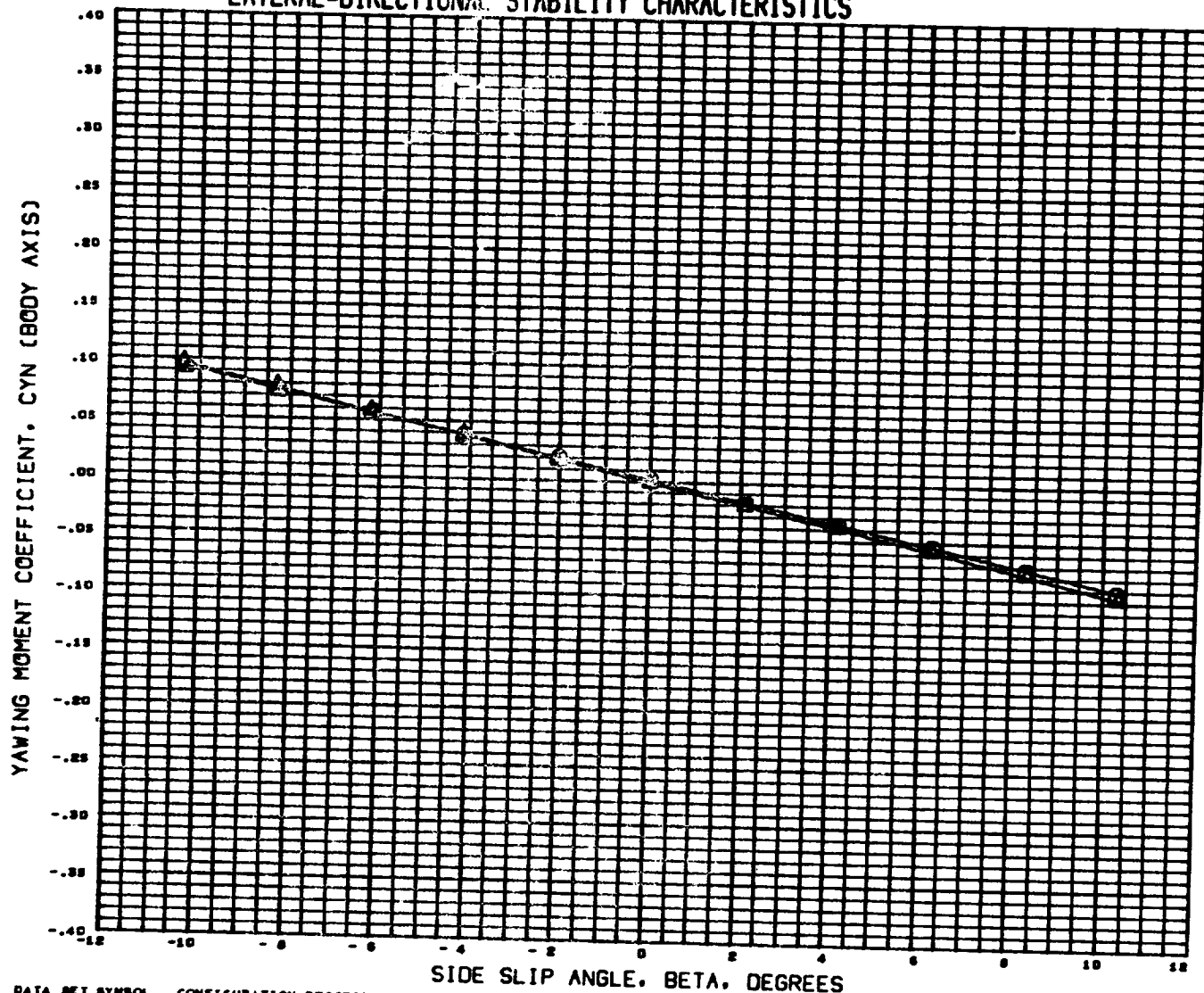
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402G)	M492-NSFC AR11901-1 MODEL B2C12
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 SQ. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.050

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



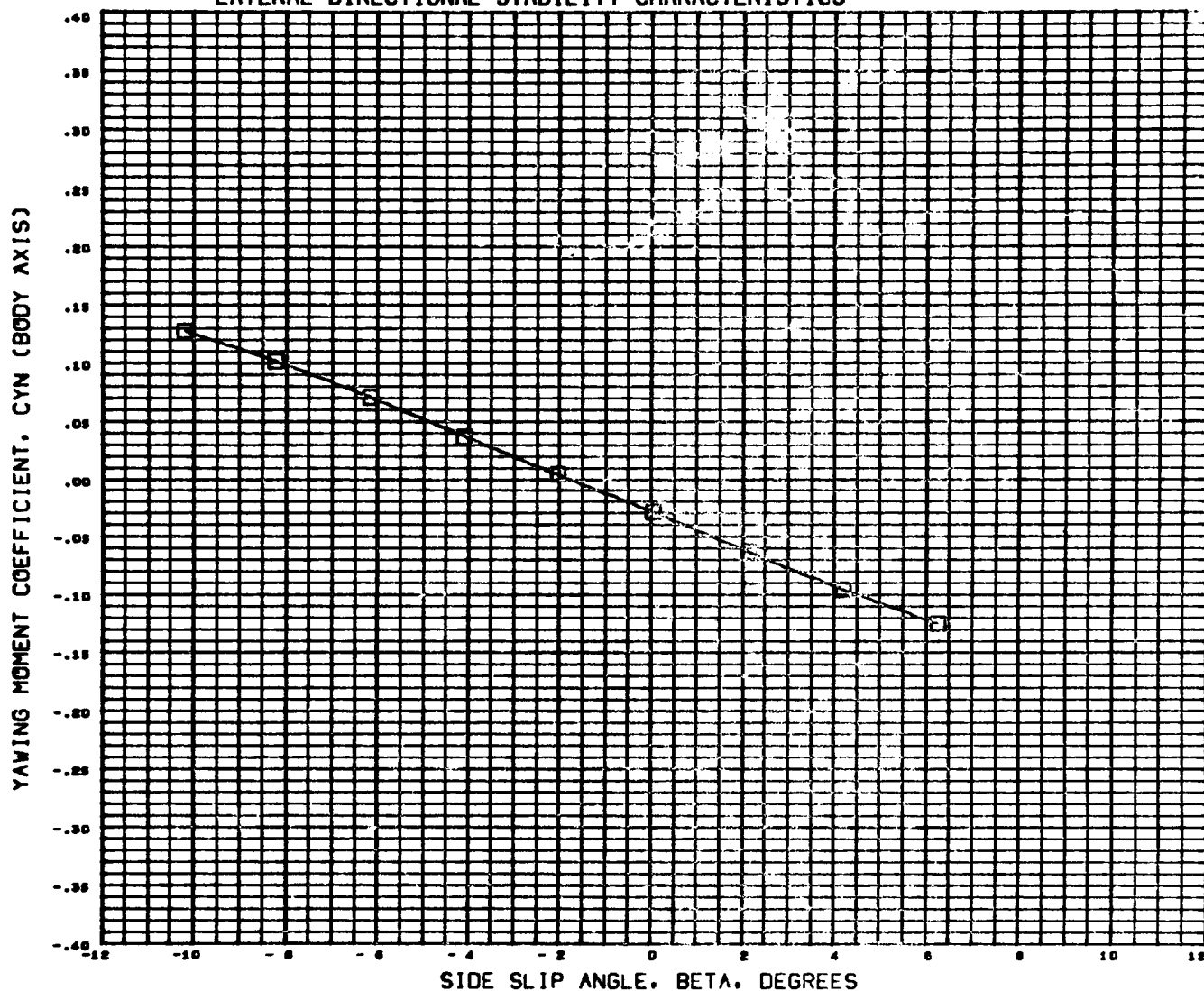
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) N492-MSFC AR1198I-1 MODEL B2C12
 (E3402G) N492-MSFC AR1198I-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 21.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 80.1N.
 LREF 4.3000 1N.
 BREF 4.3000 1N.
 YMRP 2.4000 1N.
 YMRP 0.0000 1N.
 ZMRP 0.0000 1N.
 SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) N49Z-MS7C AR11981-1 MODEL 82C1R

ALPHA CANARD

0.000 0.000
 10.000 0.000
 15.500 0.000
 51.000 0.000

REFERENCE INFORMATION

SREF 4.6225 88. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



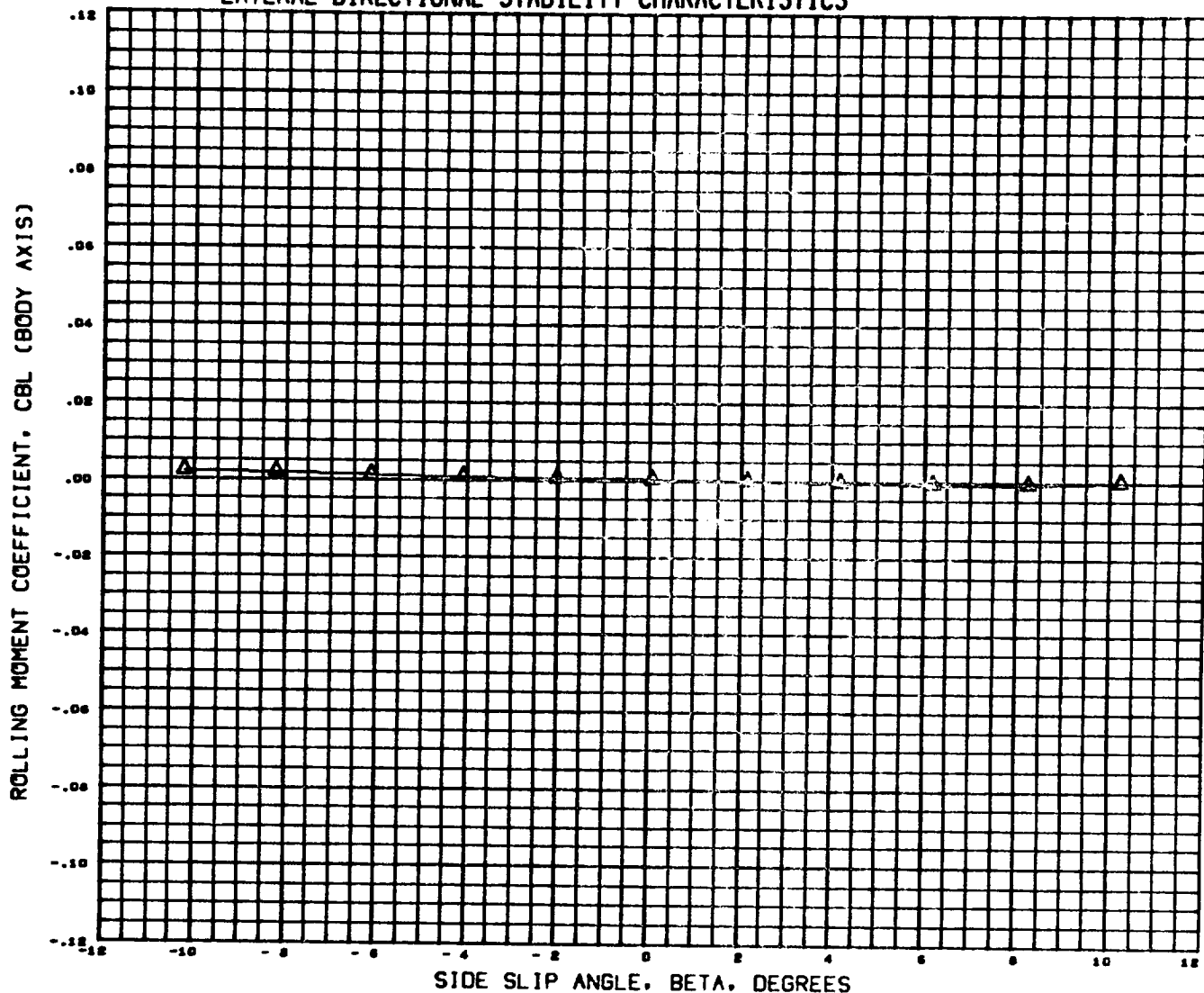
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-NAFC AR13991-1 MODEL B2C12
 (E3402H) M492-NAFC AR13991-1 MODEL B2C12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
31.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 50. IN.
LREF	4.5000 IN.
BREF	4.5000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 0.607

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



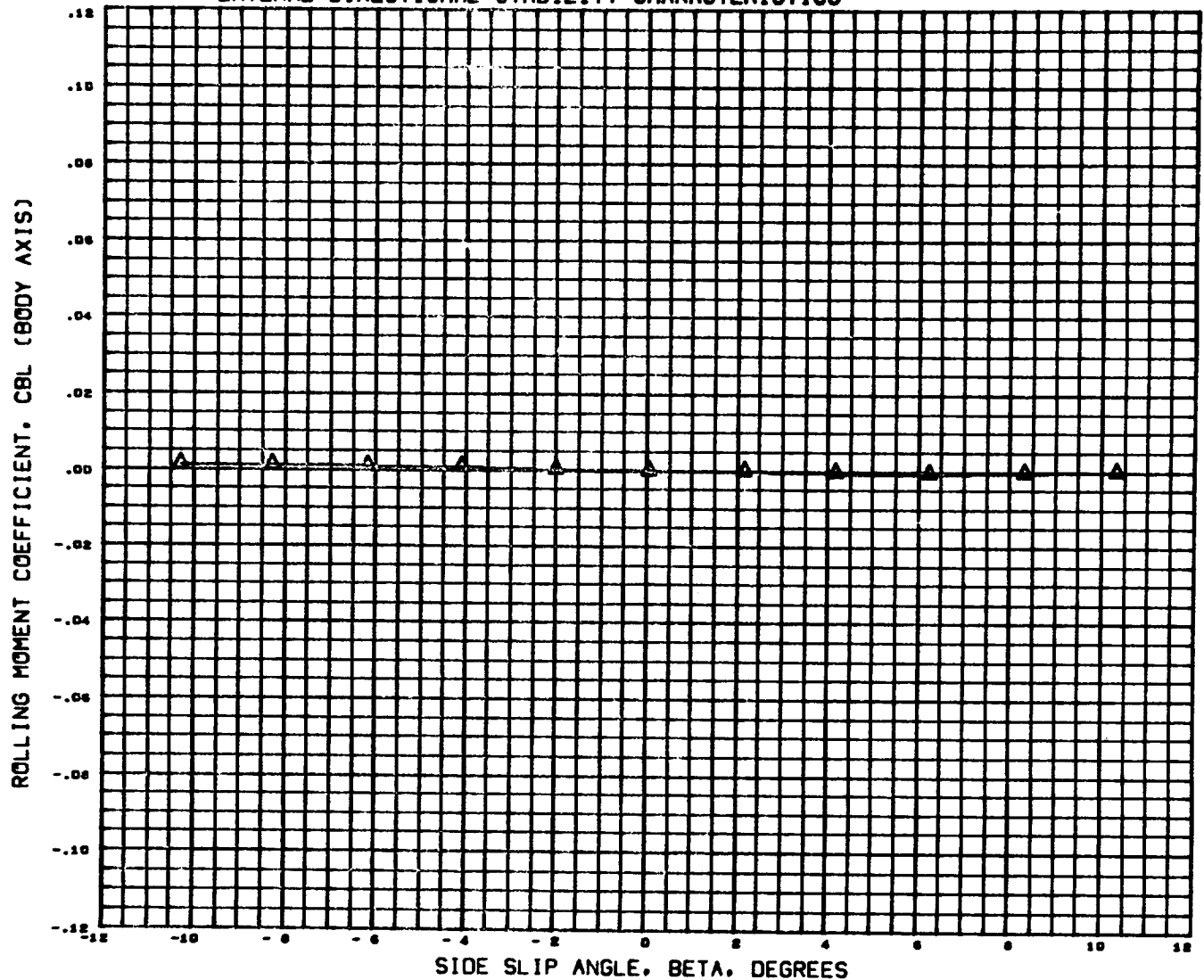
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402G)	M492-HSFC AR11881-1 MODEL B2C12
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 88.1N.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 0.998

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-NSFC AR1961-1 MODEL BZC12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.0225	90 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
YNRP	2.4000	IN.
YNRP	0.0000	IN.
ZNRP	0.0000	IN.
SCALE	0.0025	

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



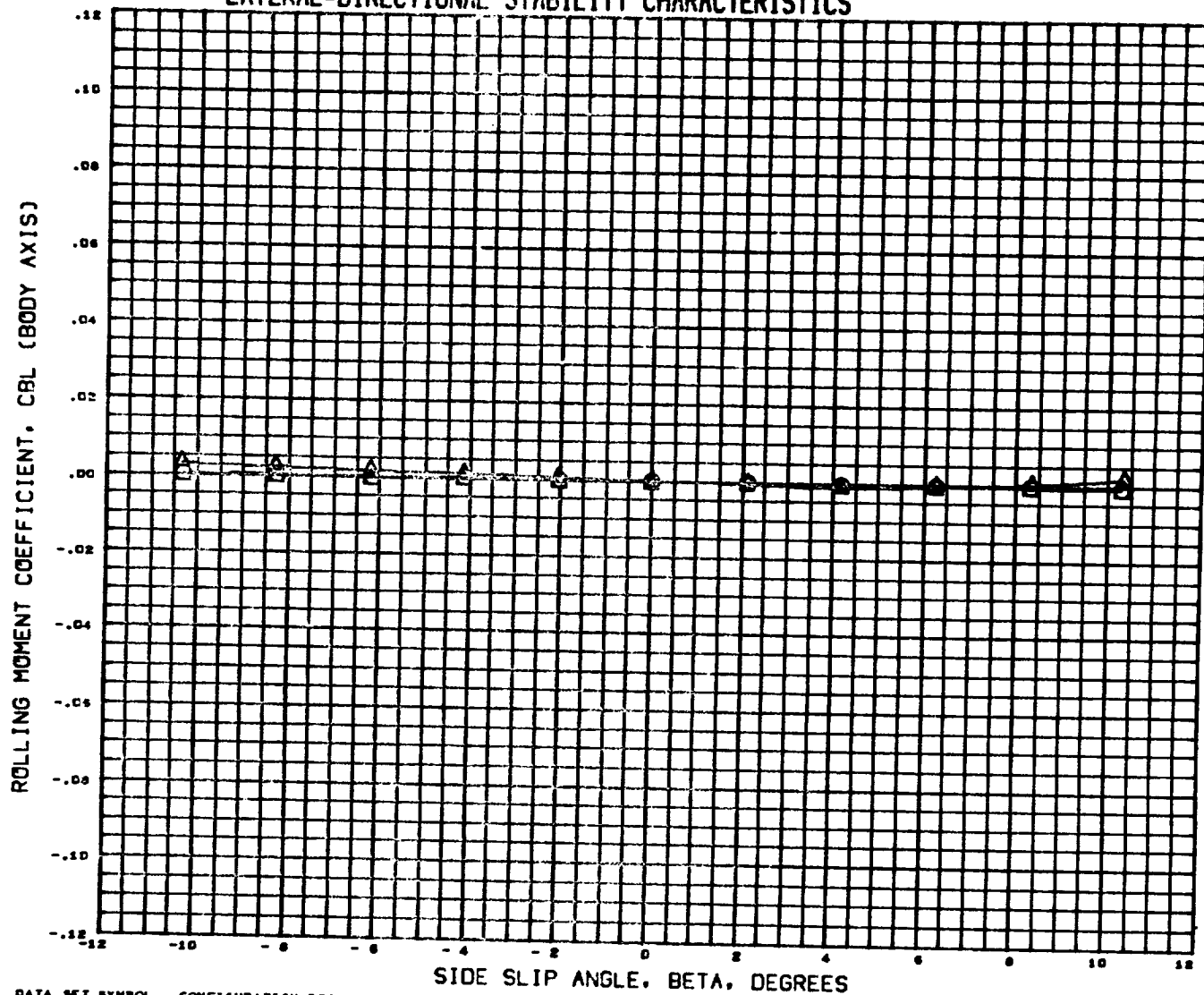
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E340EF) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E340EG) M492-MSFC AR13991-1 MODEL SEC12
 (E340EH) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E340EJ) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
21.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	80 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.958

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



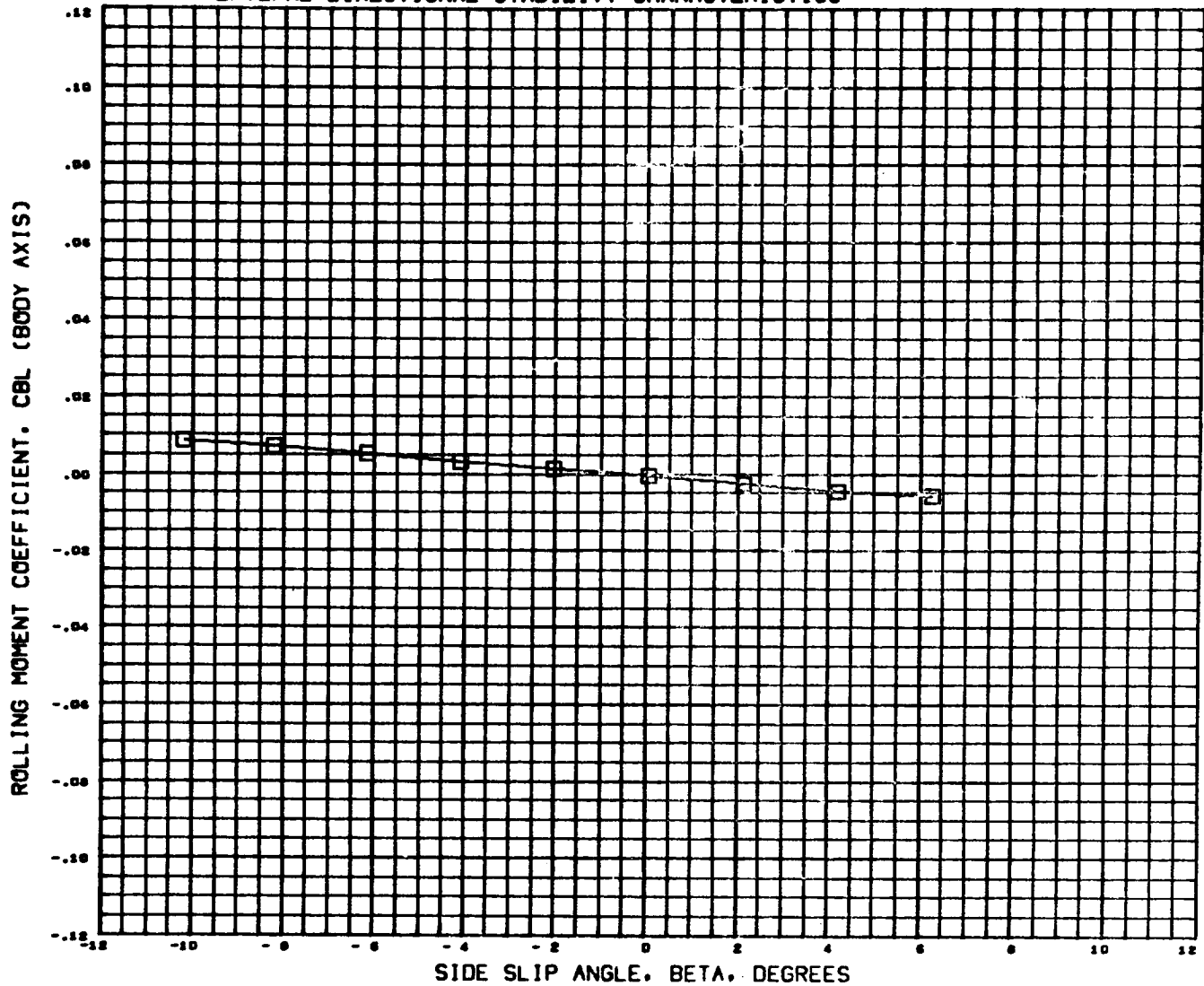
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	M492-M3FC AR11991-1 MODEL B2C12
(E3402G)	M492-M3FC AR11991-1 MODEL B2C12
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
21.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



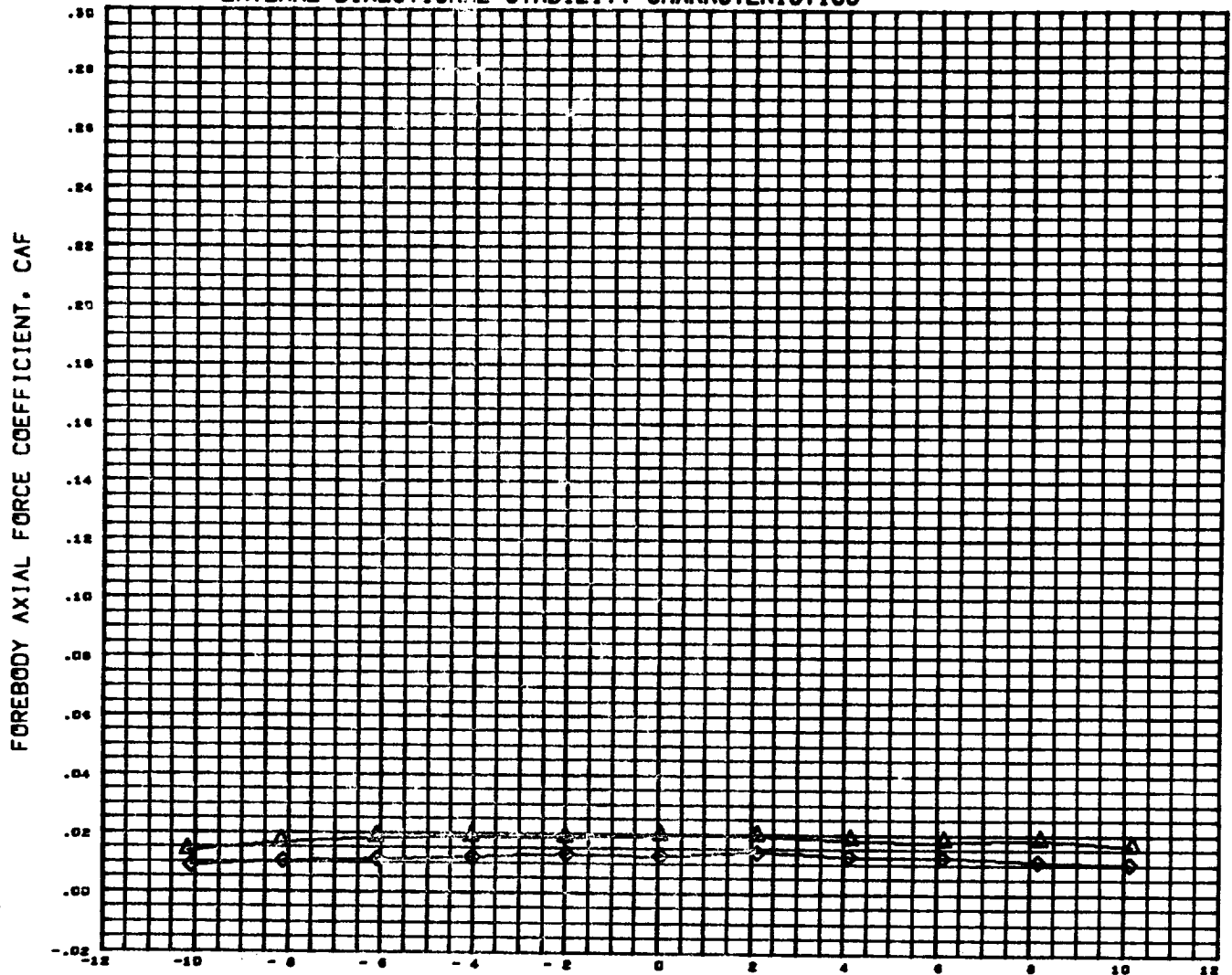
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E340E7)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340E6)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340E5)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340E4)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340E3)	M492-WBFC AR11981-1 MODEL B2C12

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
31.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 4.859

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

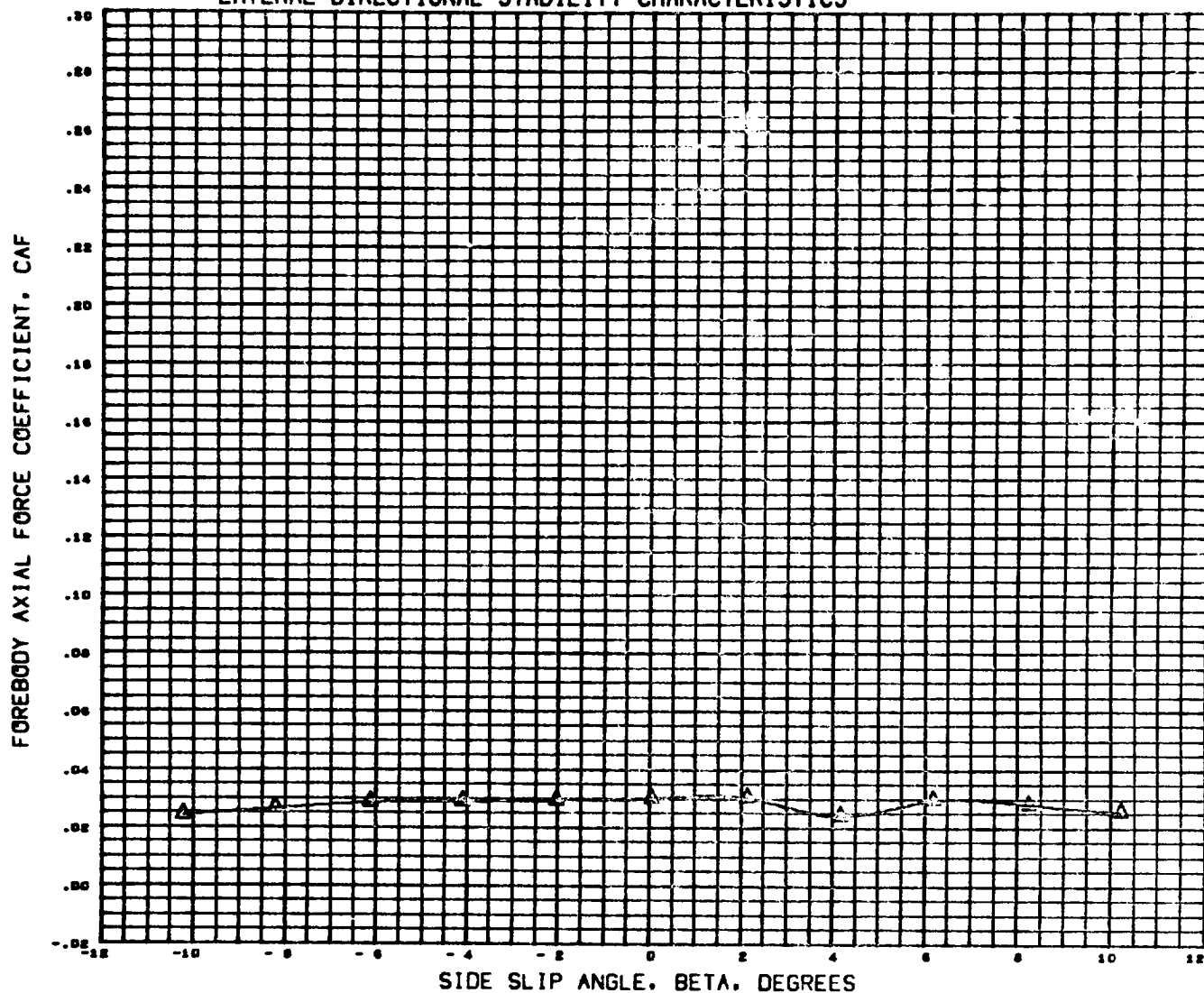


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD
(E3408F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000
(E3402G)	M492-MSFC AR1991-1 MODEL B2C12	10.000	0.000
(E3402H)	M492-MSFC AR1991-1 MODEL B2C12	15.500	0.000
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000

MACH 0.857

REFERENCE INFORMATION		
SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-MSFC AR11901-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

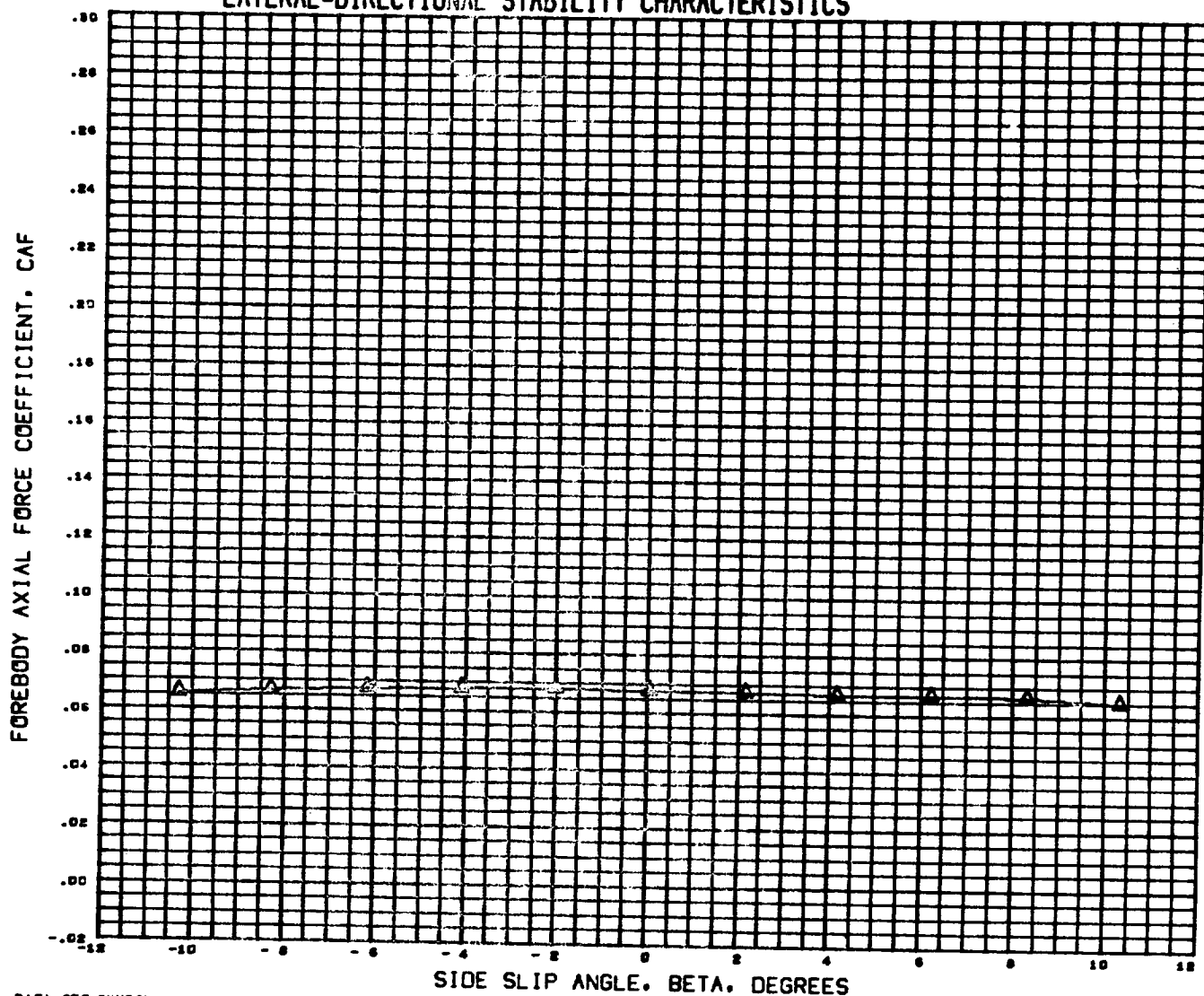
ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 21.000 0.000

REFERENCE INFORMATION

SREF 4.6225 86. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.698

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



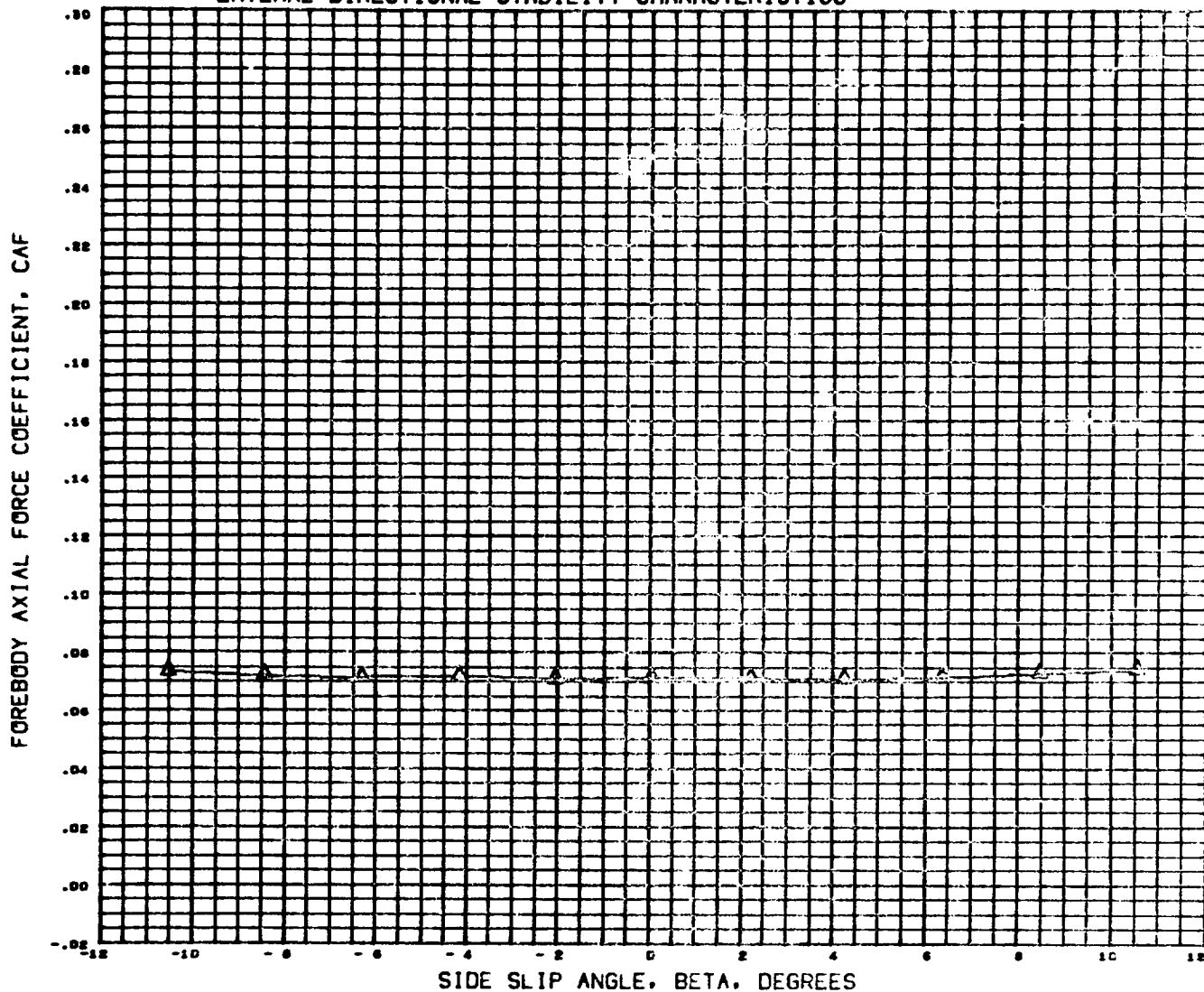
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3408F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3408G) M492-MSFC AR11981-1 MODEL B2C12
 (E3408H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3408J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
BREF	4.6225 80.IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XHRP	2.4000 IN.
YHRP	0.0000 IN.
ZHRP	0.0000 IN.
SCALE	0.0025

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



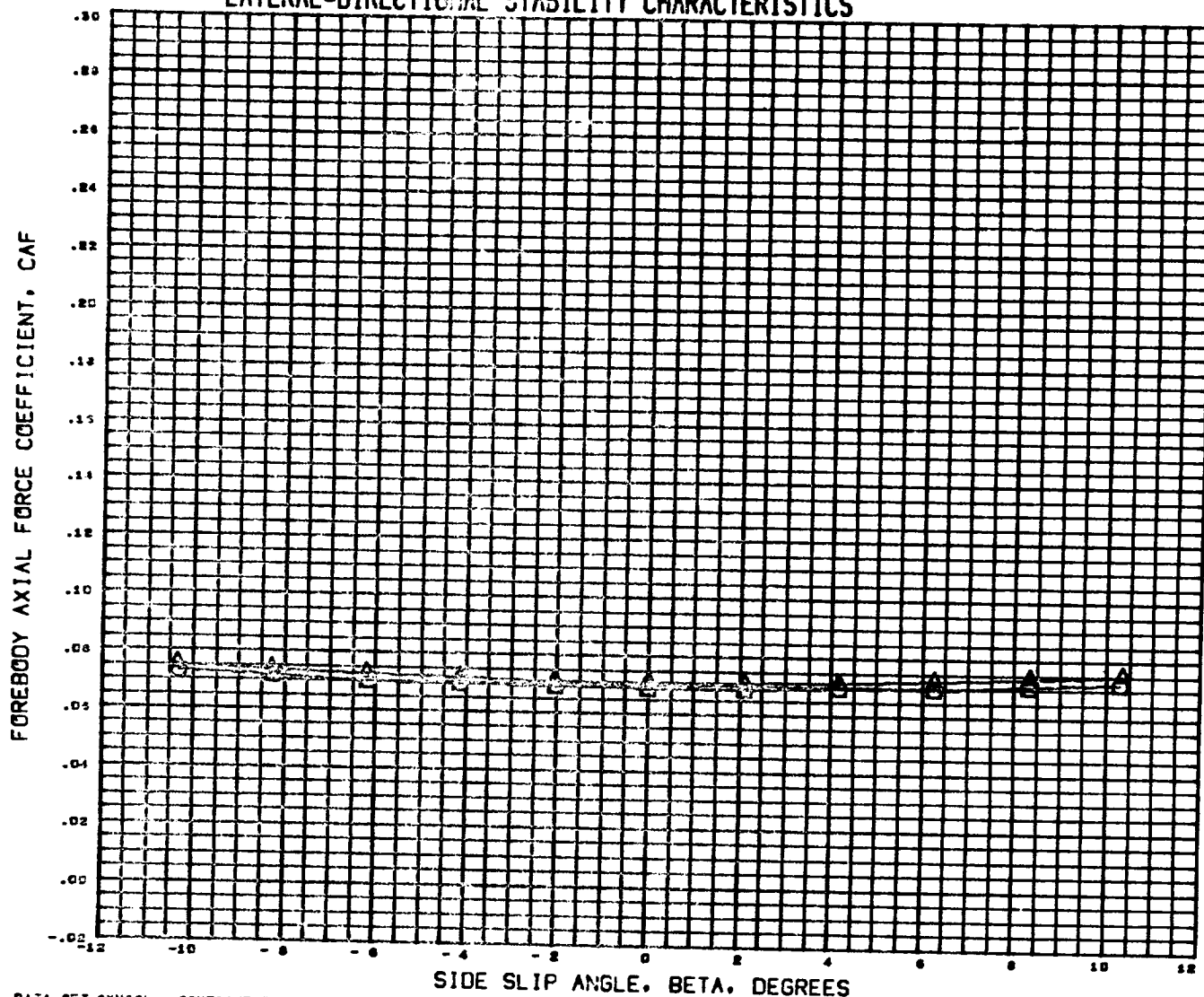
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E340ZF)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZF)	△	M402-MSFC AR11991-1 MODEL B2C12
(E340ZF)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZF)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.560	0.000
51.000	0.000

REFERENCE INFORMATION	
BREF	4.6225 80. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.956

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



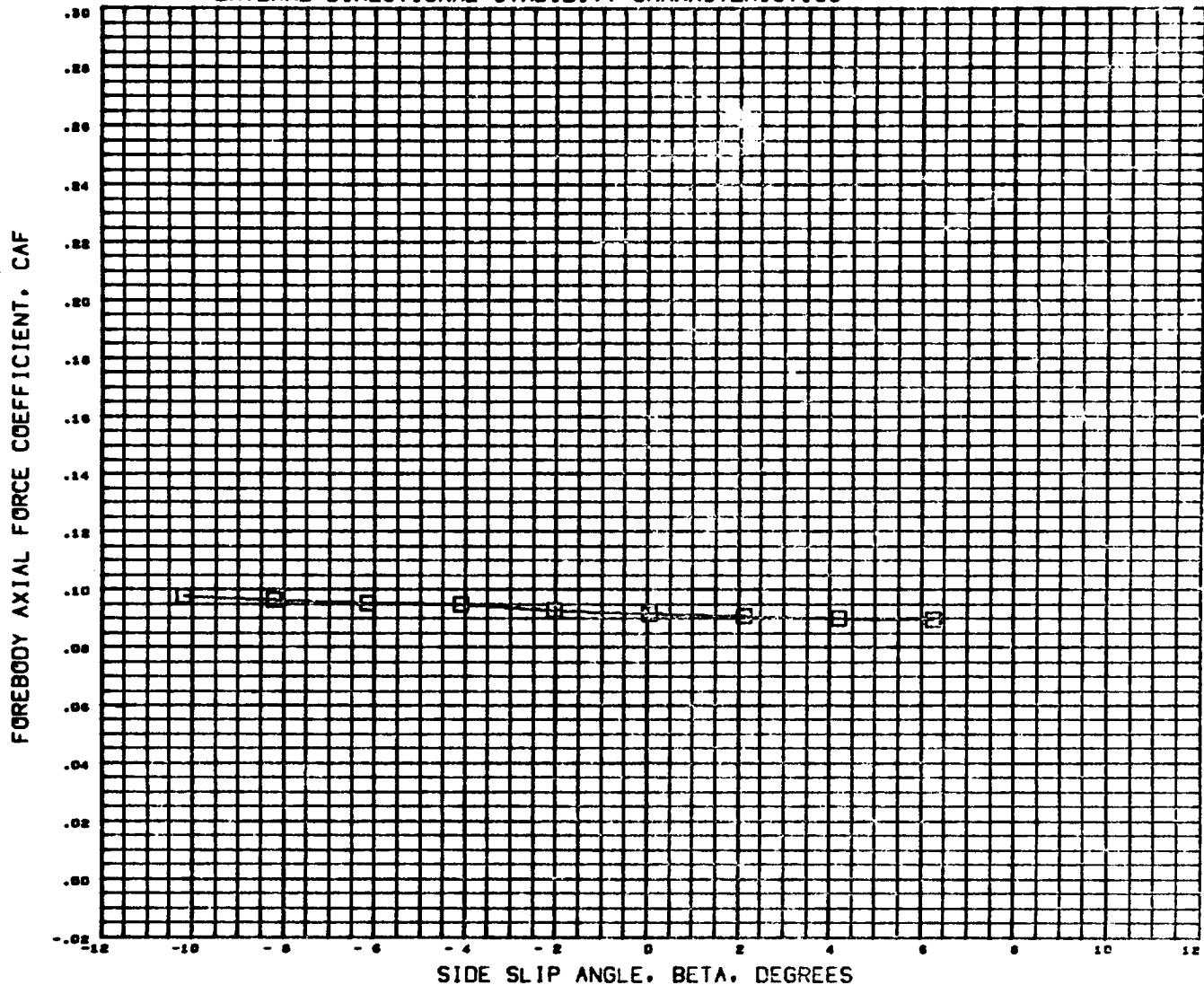
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) N492-MSFC AR1981-1 MODEL B2C12
 (E3402G) N492-MSFC AR1981-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
BREF	4.6225	88 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 5.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



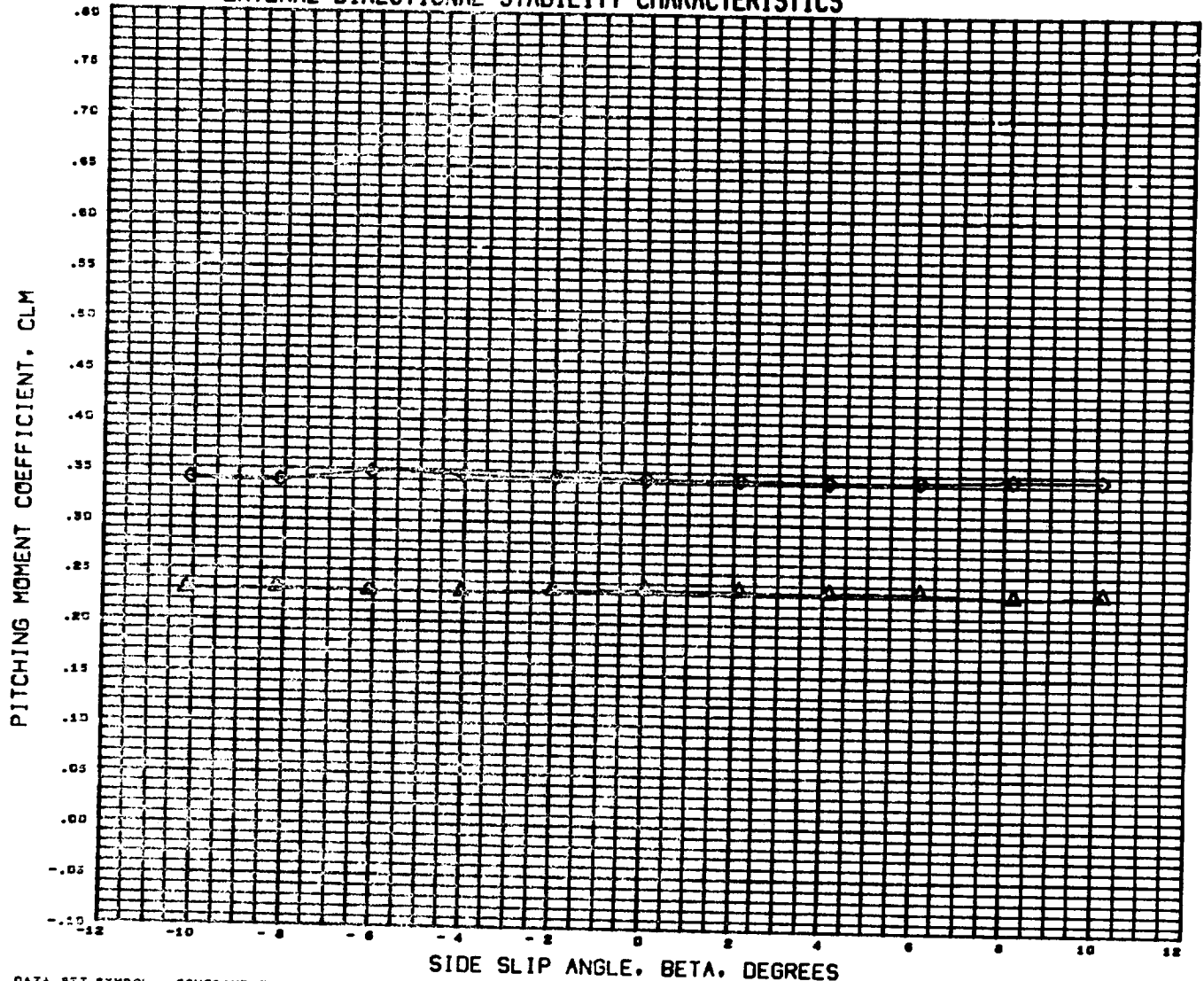
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402G)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402J)	N492-MSFC AR11981-1 MODEL B2C12

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.8225	50 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



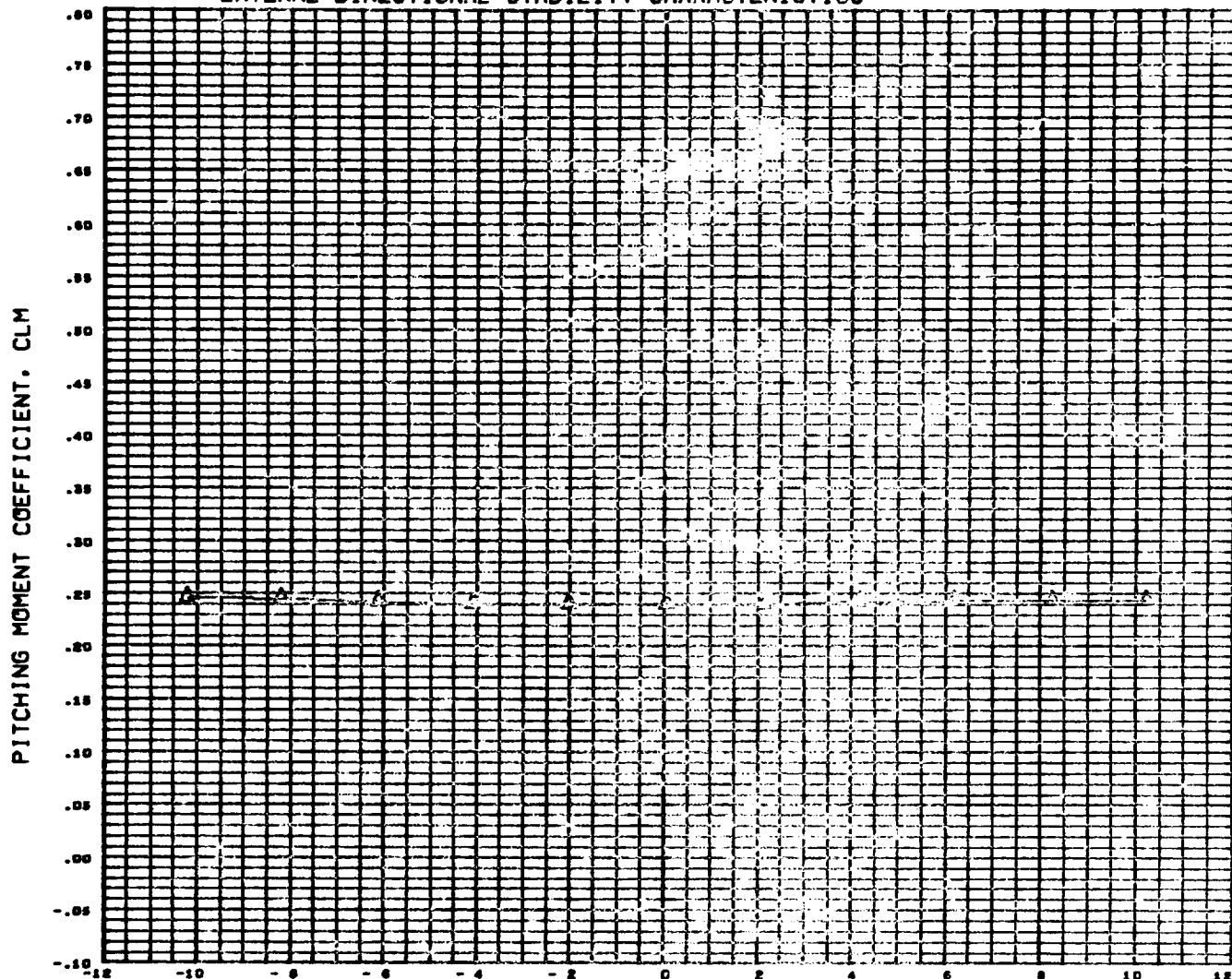
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-MSFC AR1981-1 MODEL B2C12
 (E3402H) M492-MSFC AR1981-1 MODEL B2C12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
21.000	0.000

REFERENCE INFORMATION
 SREF 4.6225 80 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.607

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



SIDE SLIP ANGLE, BETA, DEGREES

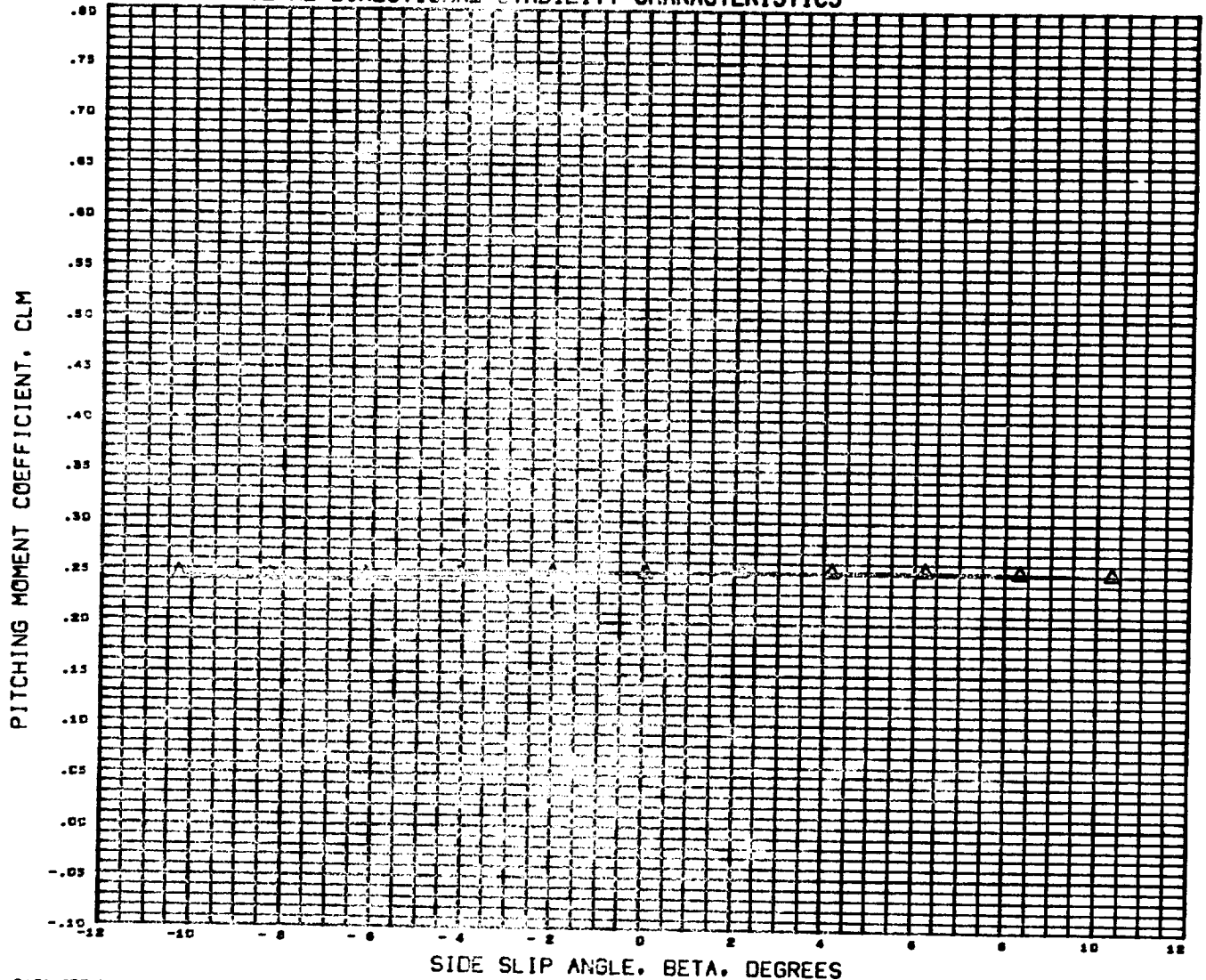
DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(E340ZF)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZG)	△	M492-MSFC AR11981-1 MODEL B2C12
(E340ZH)	×	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZJ)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
31.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	98. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XWRF	2.4000	IN.
YWRF	0.0000	IN.
ZWRF	0.0000	IN.
SCALE	0.0025	

MACH 0.858

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



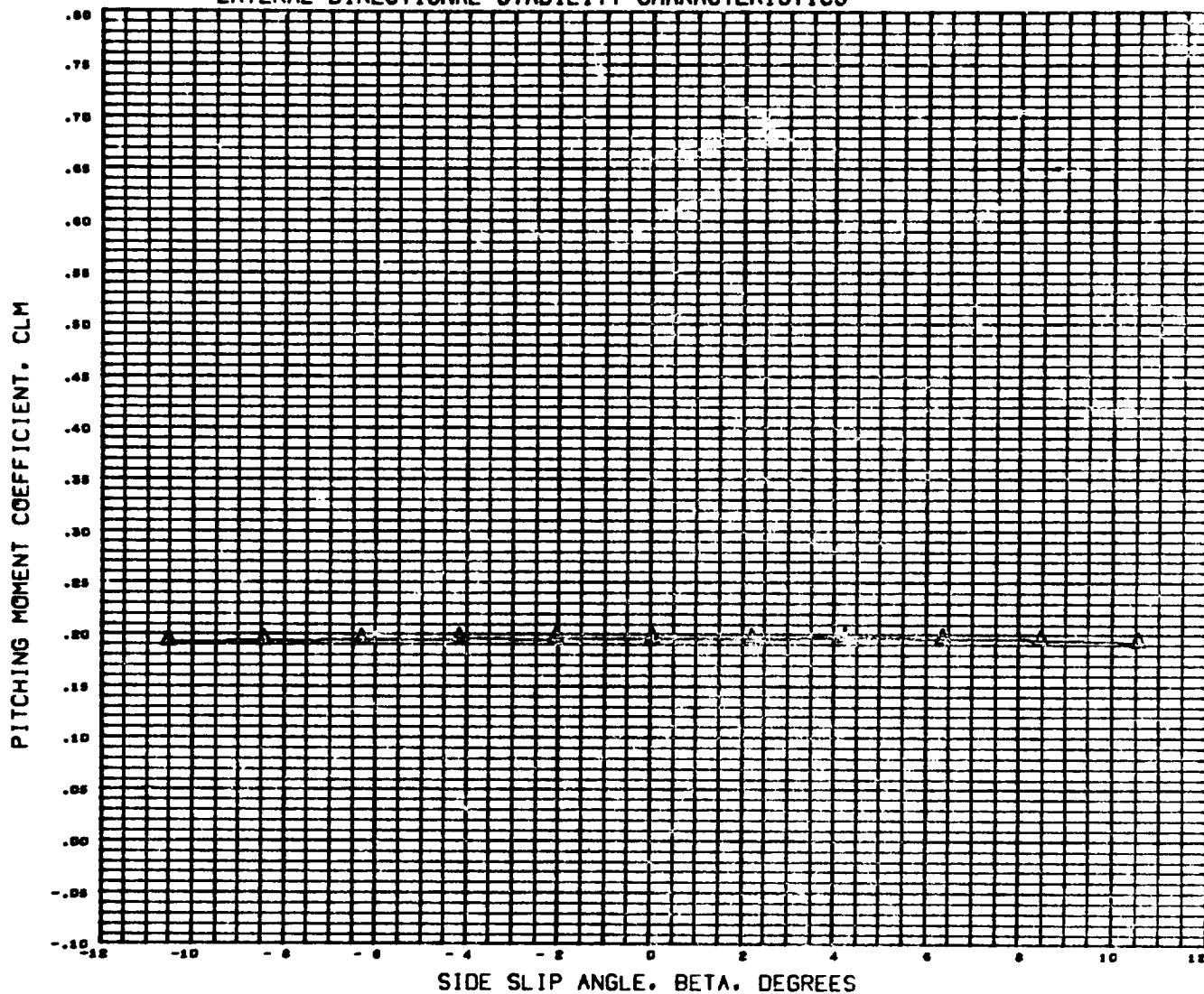
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-HSFC AR11981-1 MODEL B2C22
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
51.000	0.000

REFERENCE INFORMATION	
BREF	4.6225 50 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XNRP	2.4000 IN.
YNRP	0.0000 IN.
ZNRP	0.0000 IN.
SCALE	0.0025

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E340ZF)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZF)	N492-HSFC AR11901-1 MODEL 02C12
(E340ZF)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZF)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD

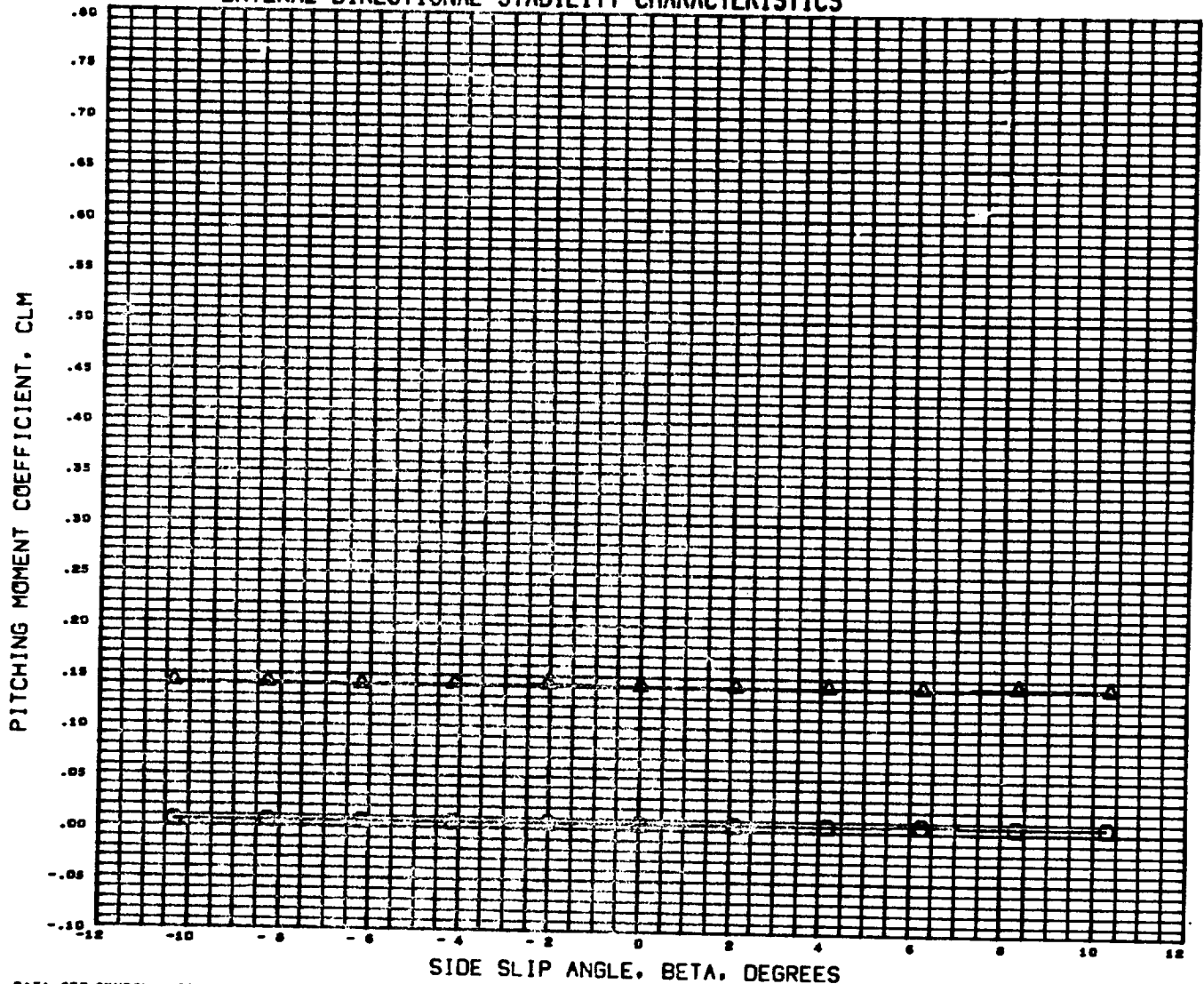
0.000	0.000
10.000	0.000
15.500	0.000
31.000	0.000

REFERENCE INFORMATION

SREF	4.6225	80 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.936

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



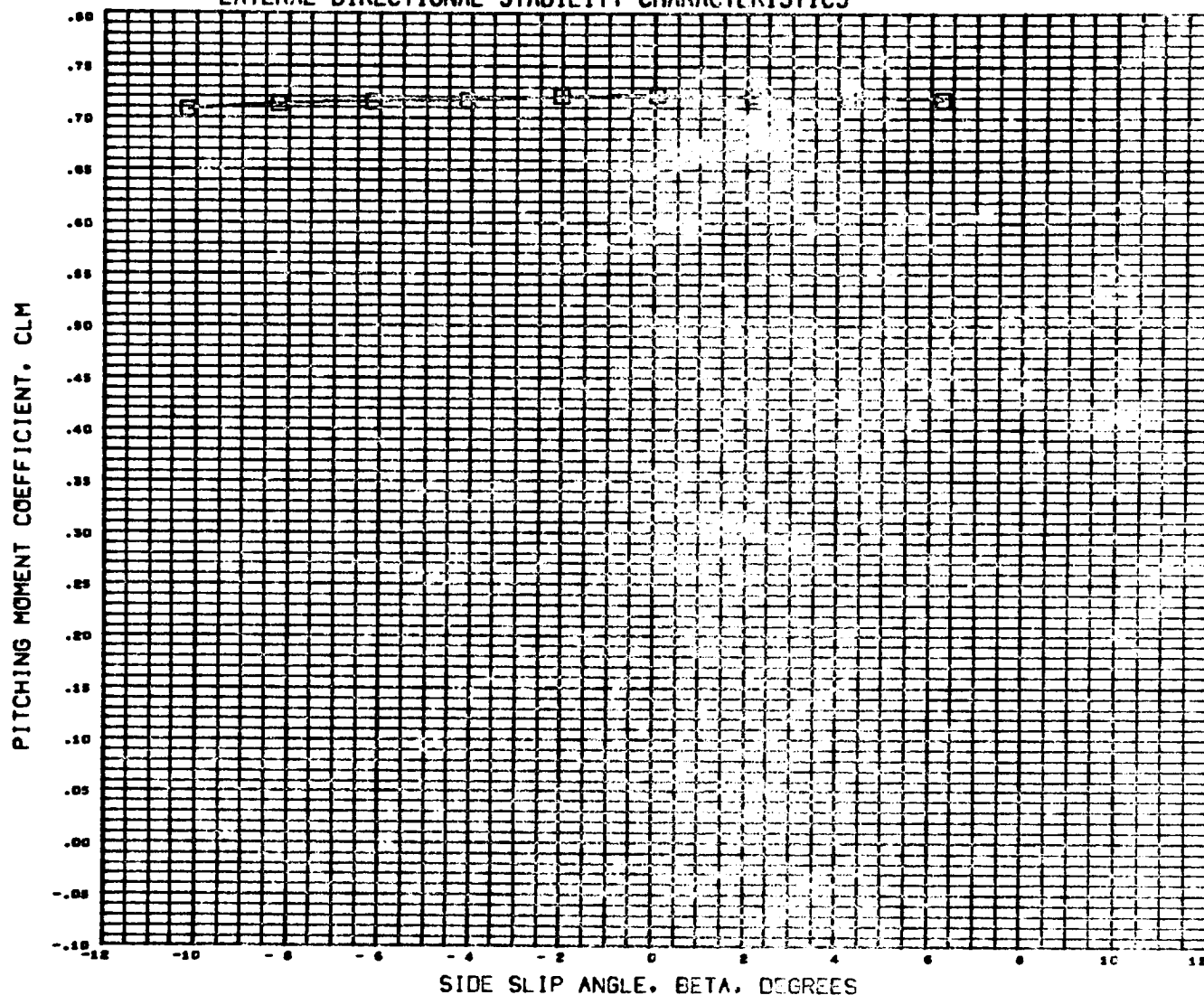
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) M492-MSFC AR11991-1 MODEL BEC12
 (E3402G) M492-MSFC AR11991-1 MODEL BEC12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
21.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 88.1N.
LREF	4.3000 IN.
BREF	4.3000 IN.
YNRP	2.4000 IN.
YNRP	0.0000 IN.
ZNRP	0.0000 IN.
SCALE	0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



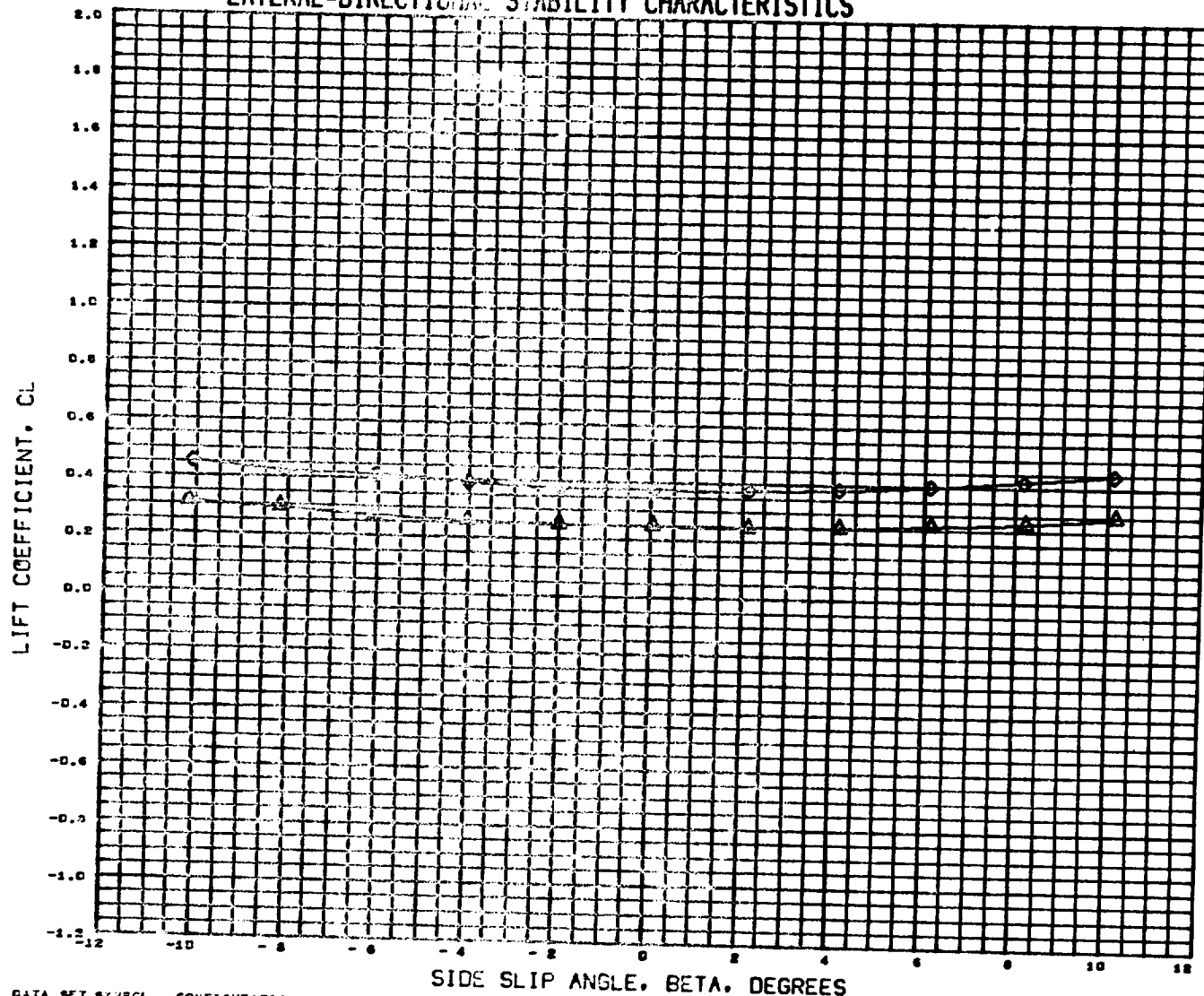
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E340ZF)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZG)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZH)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E340ZJ)	N492-N5FC AR11921-1 MODEL 82C12

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
BREF	4.6223 30.1N.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0000

MACH 4.950

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



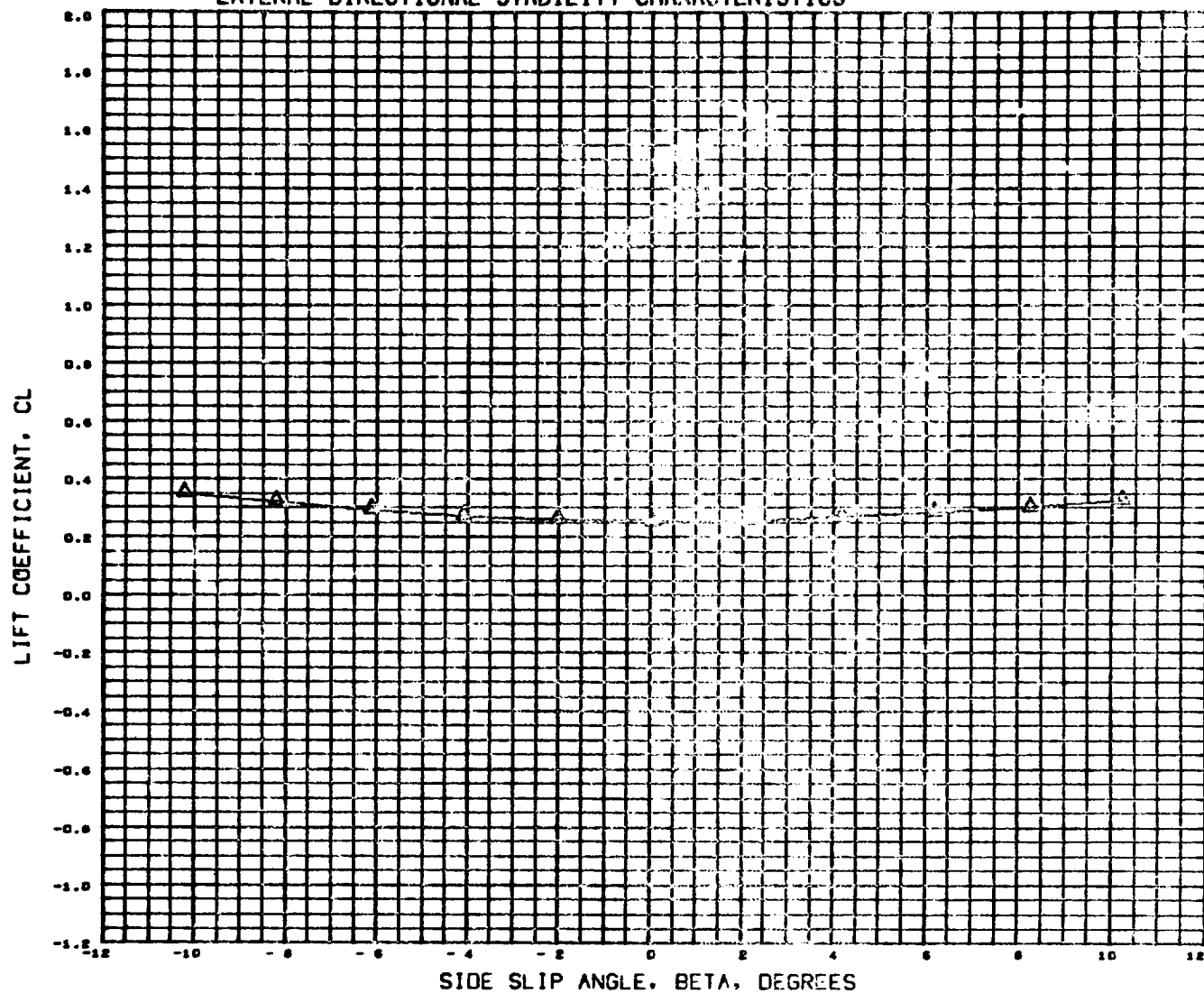
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) N492-MSFC AR11981-1 MODEL B2C12
 (E3402H) N492-MSFC AR11981-1 MODEL B2C12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 88. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 0.627

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-NBFC AR11981-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD

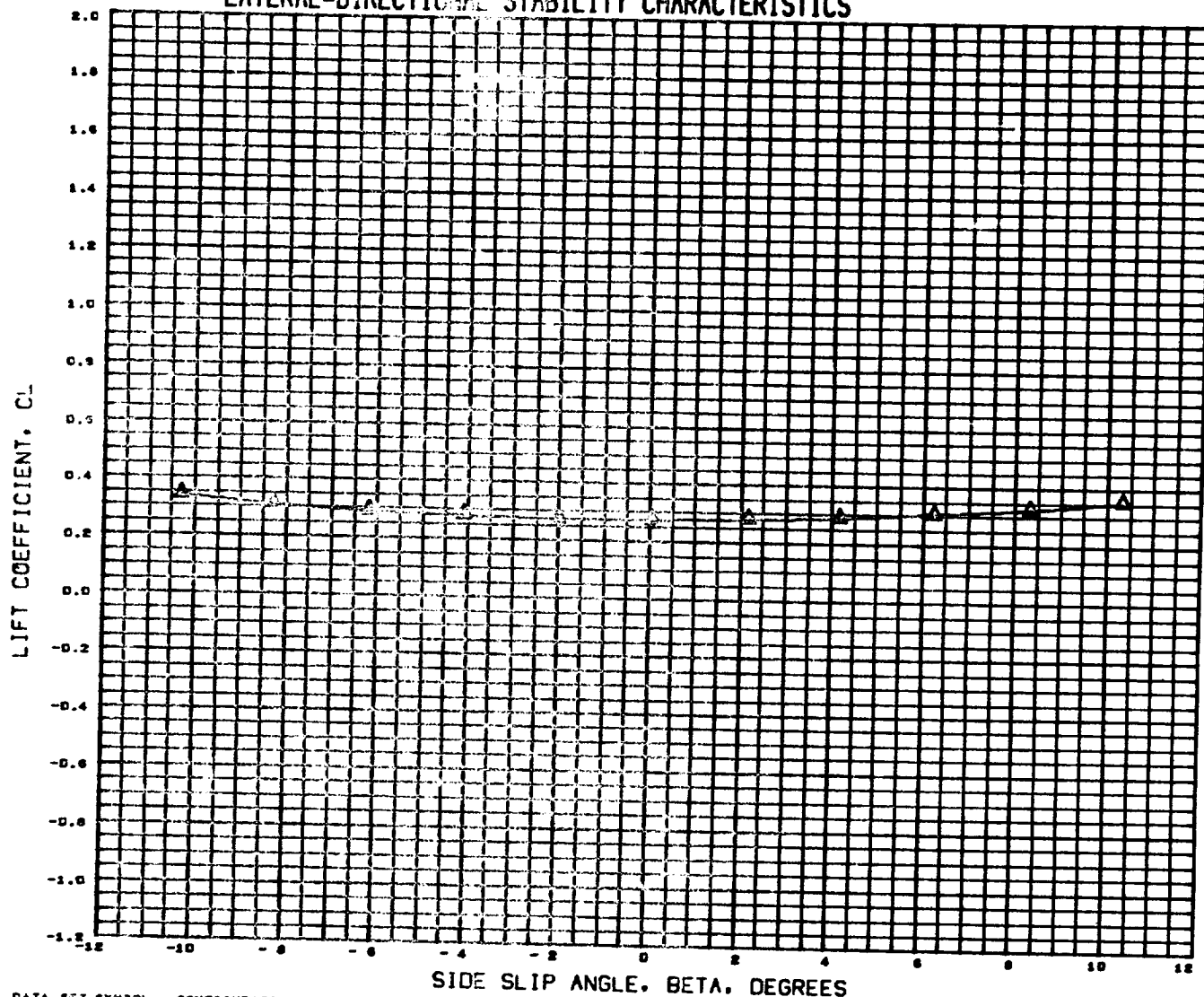
0.000 0.000
 10.000 0.000
 15.500 0.000
 21.000 0.000

REFERENCE INFORMATION

SREF 4.6225 56 IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.898

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



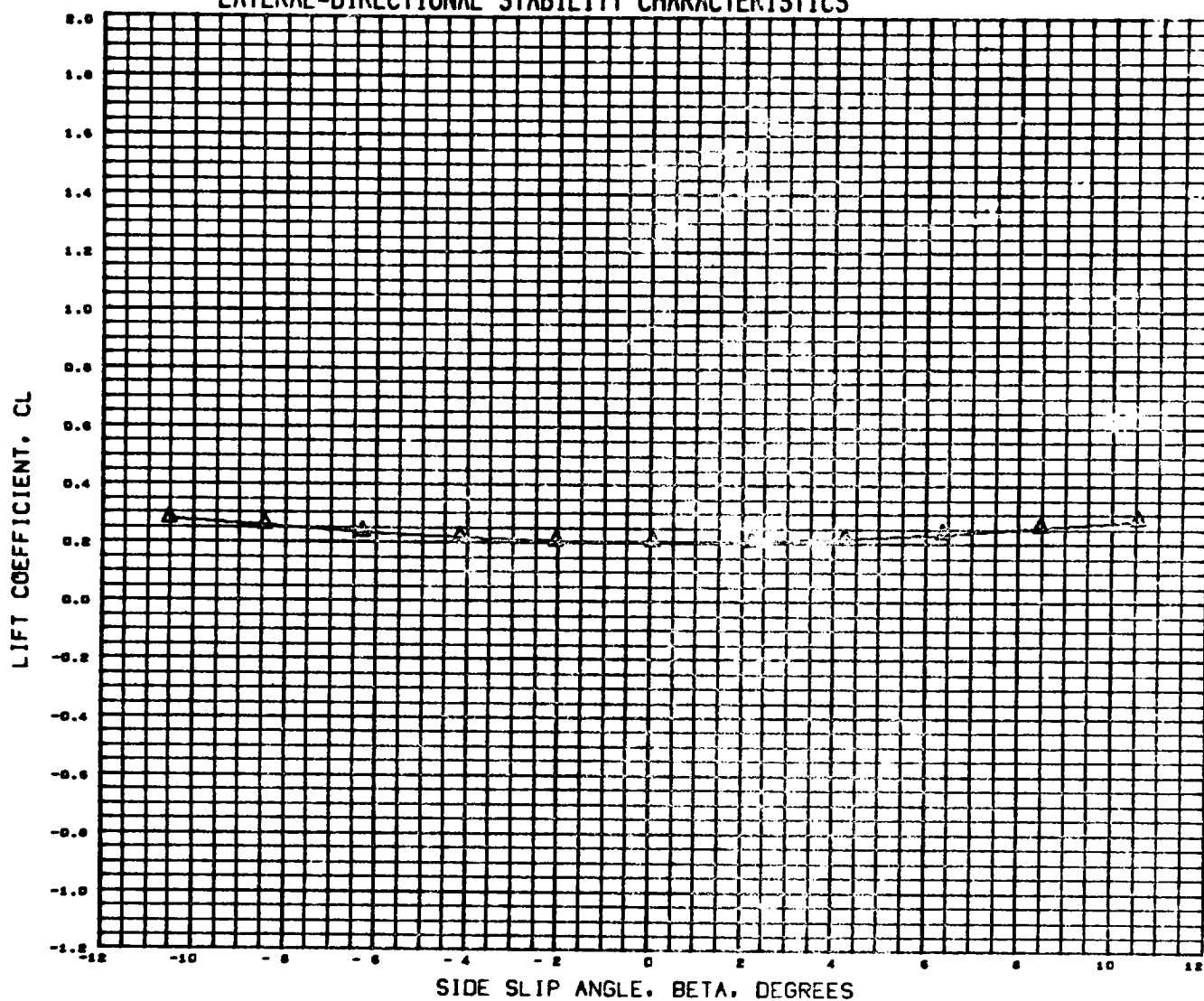
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E34027) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E34026) M49C-M3FC AR11981-1 MODEL B2C12
 (E34025) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E34024) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
BREF	4.6225 88.1N.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



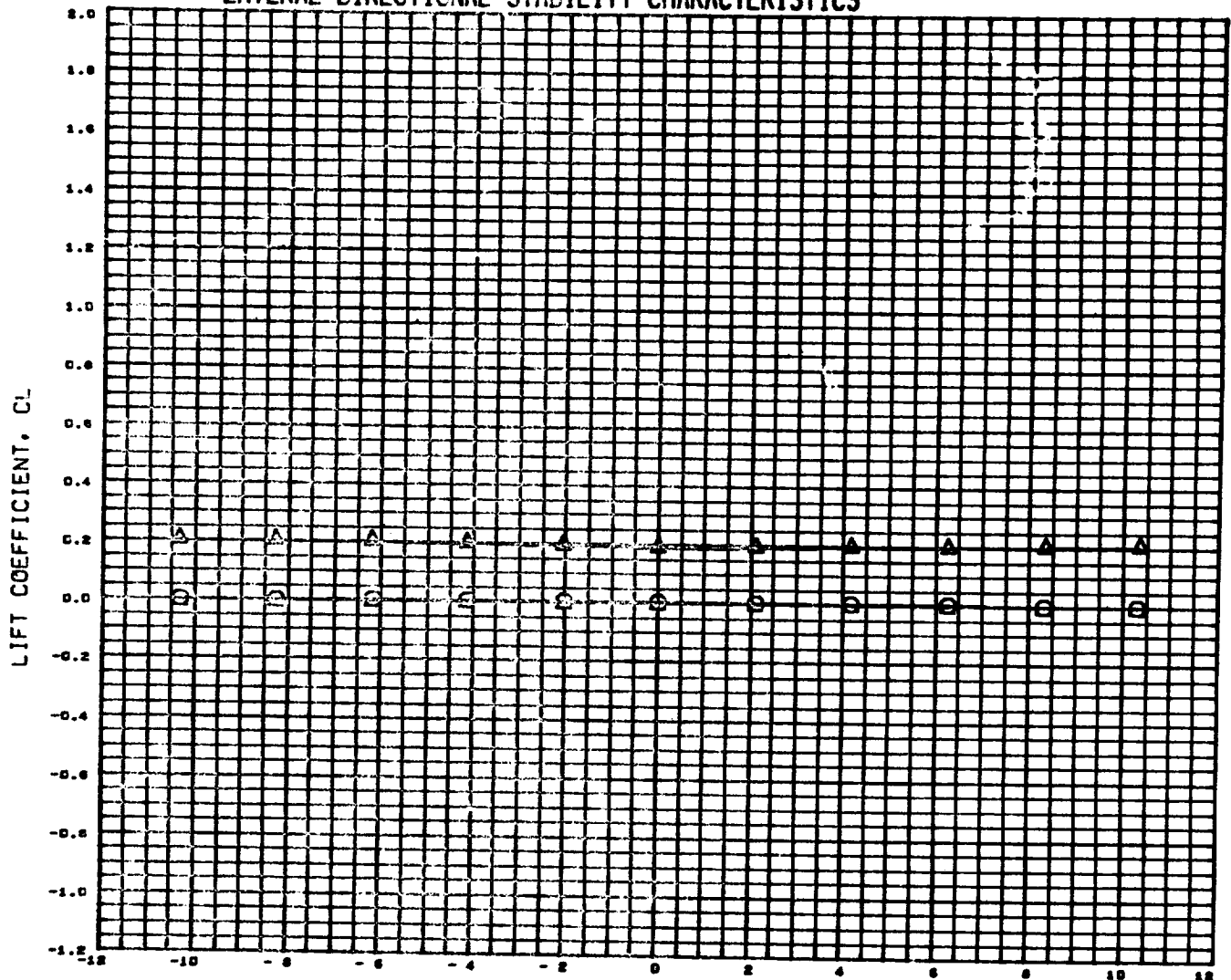
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) N482-NSFC ARI1901-1 MODEL 02C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.950

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



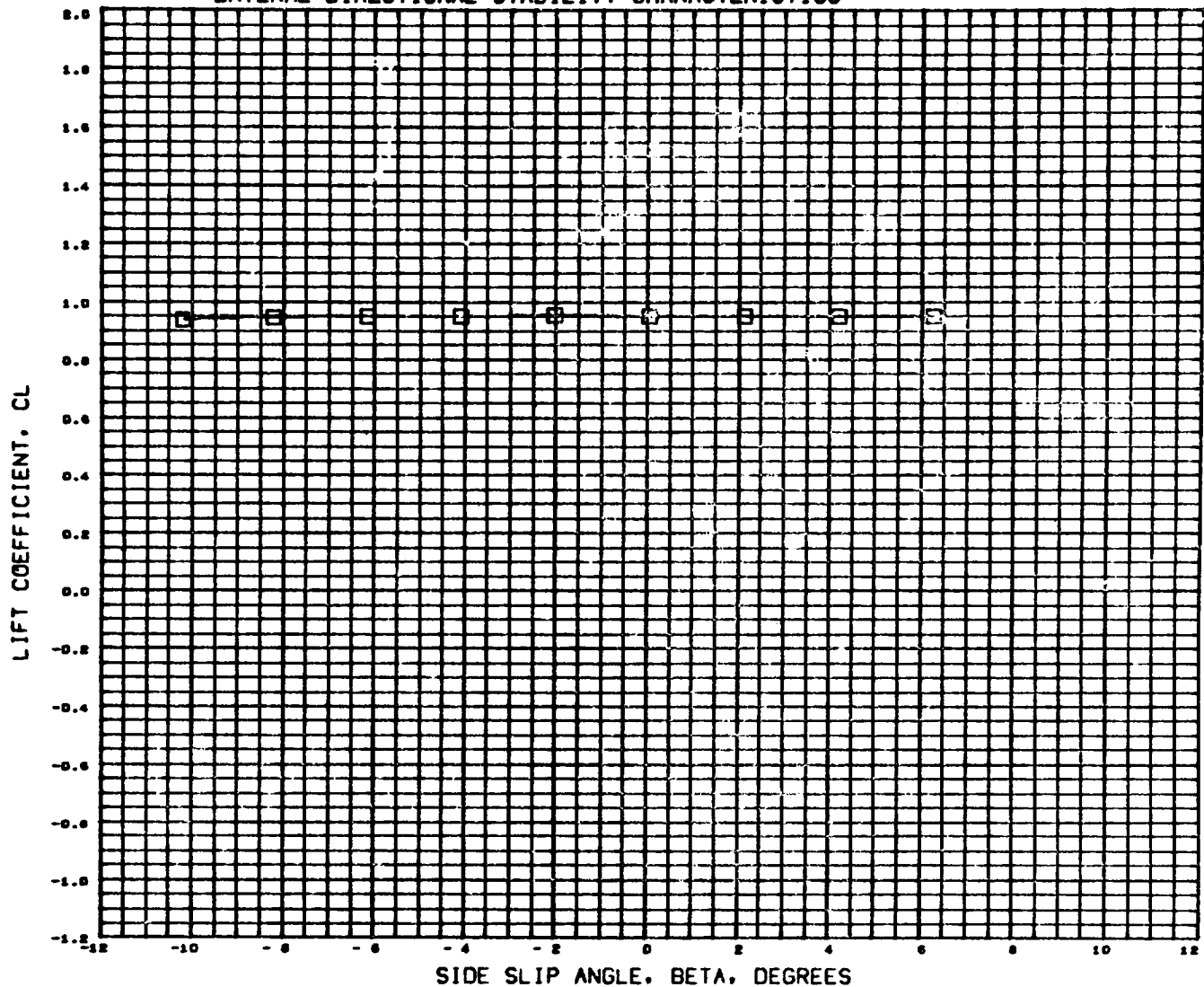
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3408F)	Q492-N5FC AR11981-1 MODEL B2C12
(E3408G)	Q492-N5FC AR11981-1 MODEL B2C12
(E3408H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3408J)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
21.000	0.000

REFERENCE INFORMATION		
BREF	4.6225	80.IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



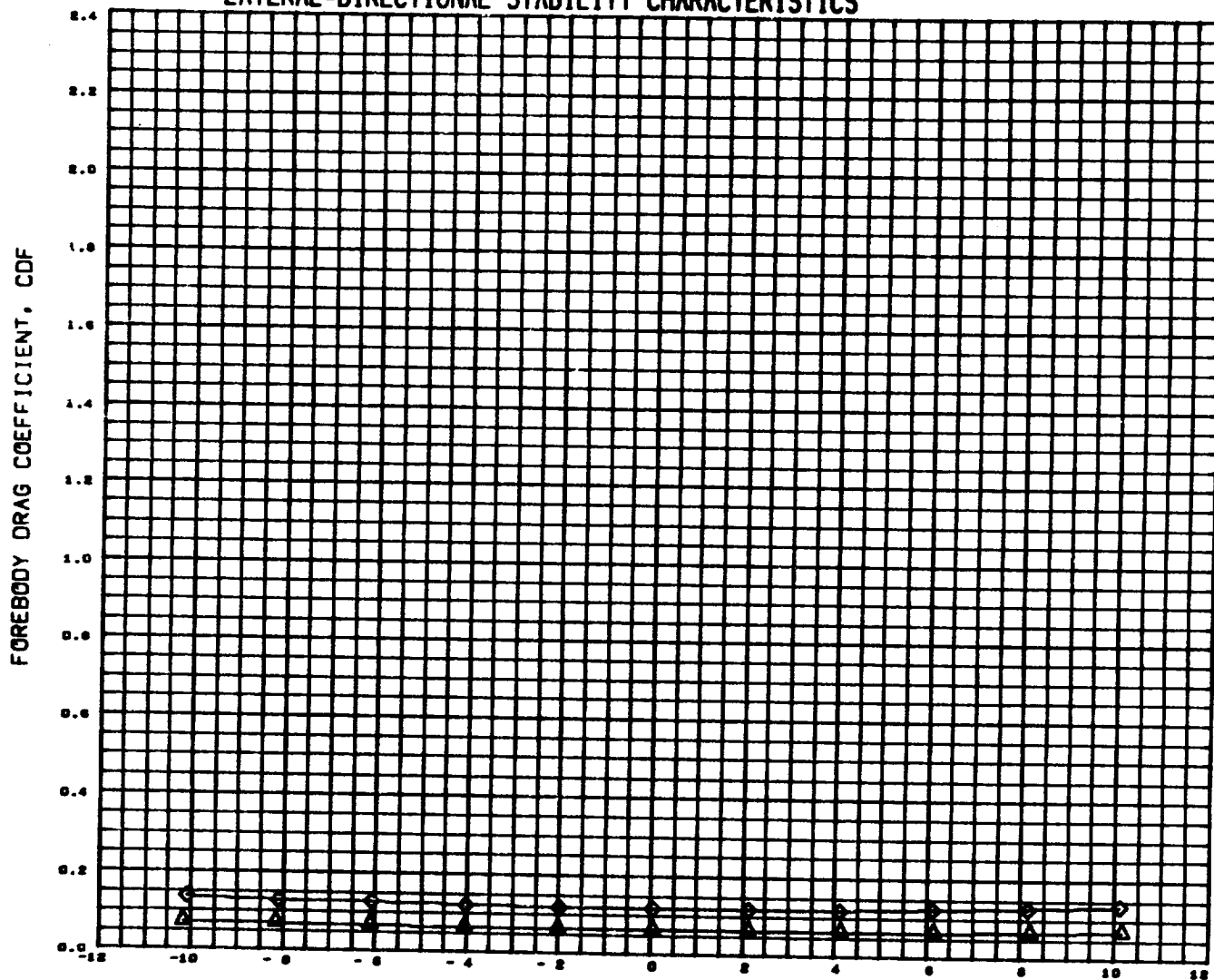
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) N492-KSFC AR11961-1 MODEL DEC12

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION		
SELF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	8.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 4.950

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-NSFC AR11981-1 MODEL B2C12
 (E3402H) M492-NSFC AR11981-1 MODEL B2C12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

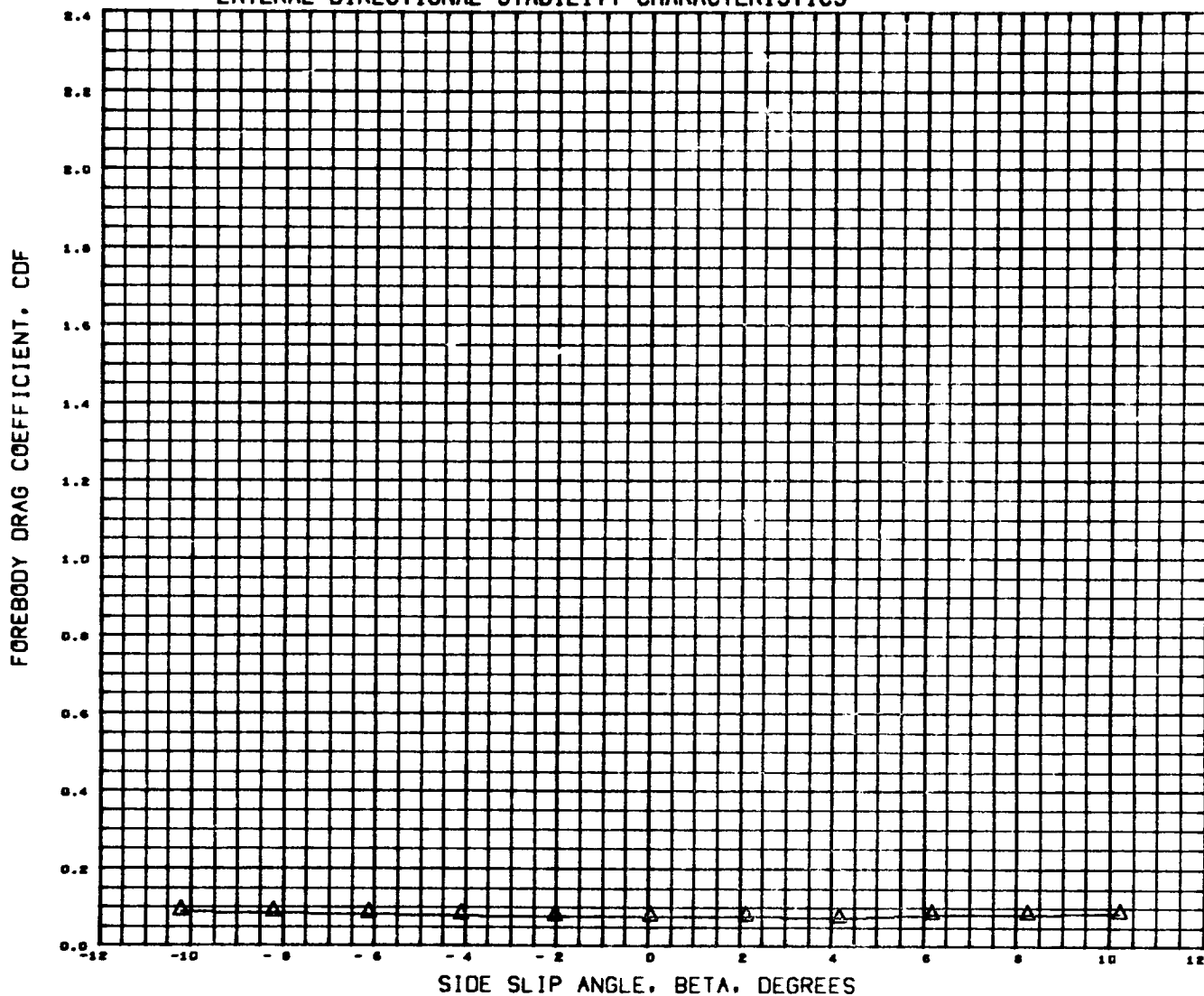
ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
21.000	0.000

REFERENCE INFORMATION

SREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.607

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-HSFC AR11981-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

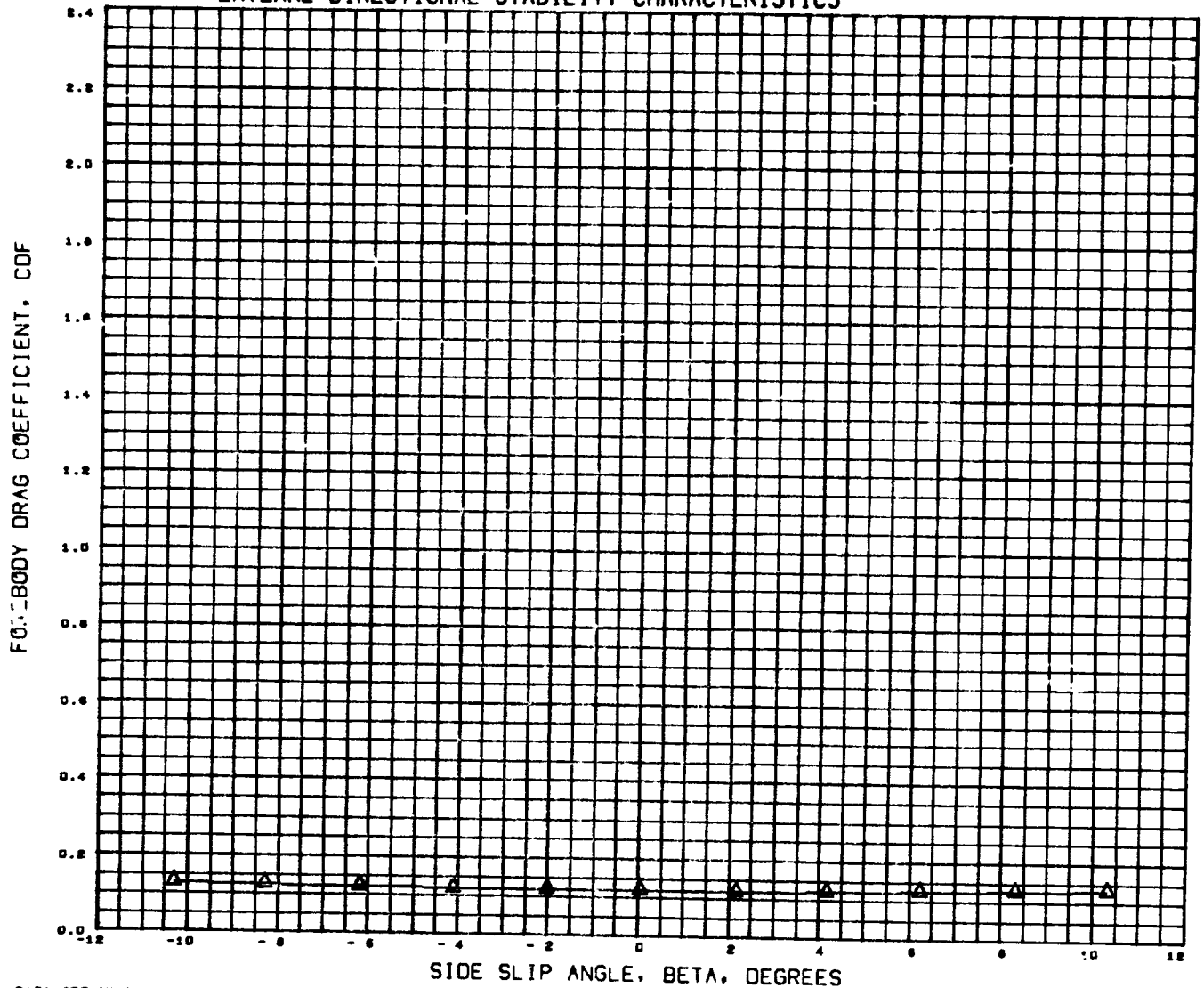
ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 51.000 0.000

REFERENCE INFORMATION

SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XNRP 2.4000 IN.
 YNRP 0.0000 IN.
 ZNRP 0.0000 IN.
 SCALE 0.0025

MACH 0.898

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



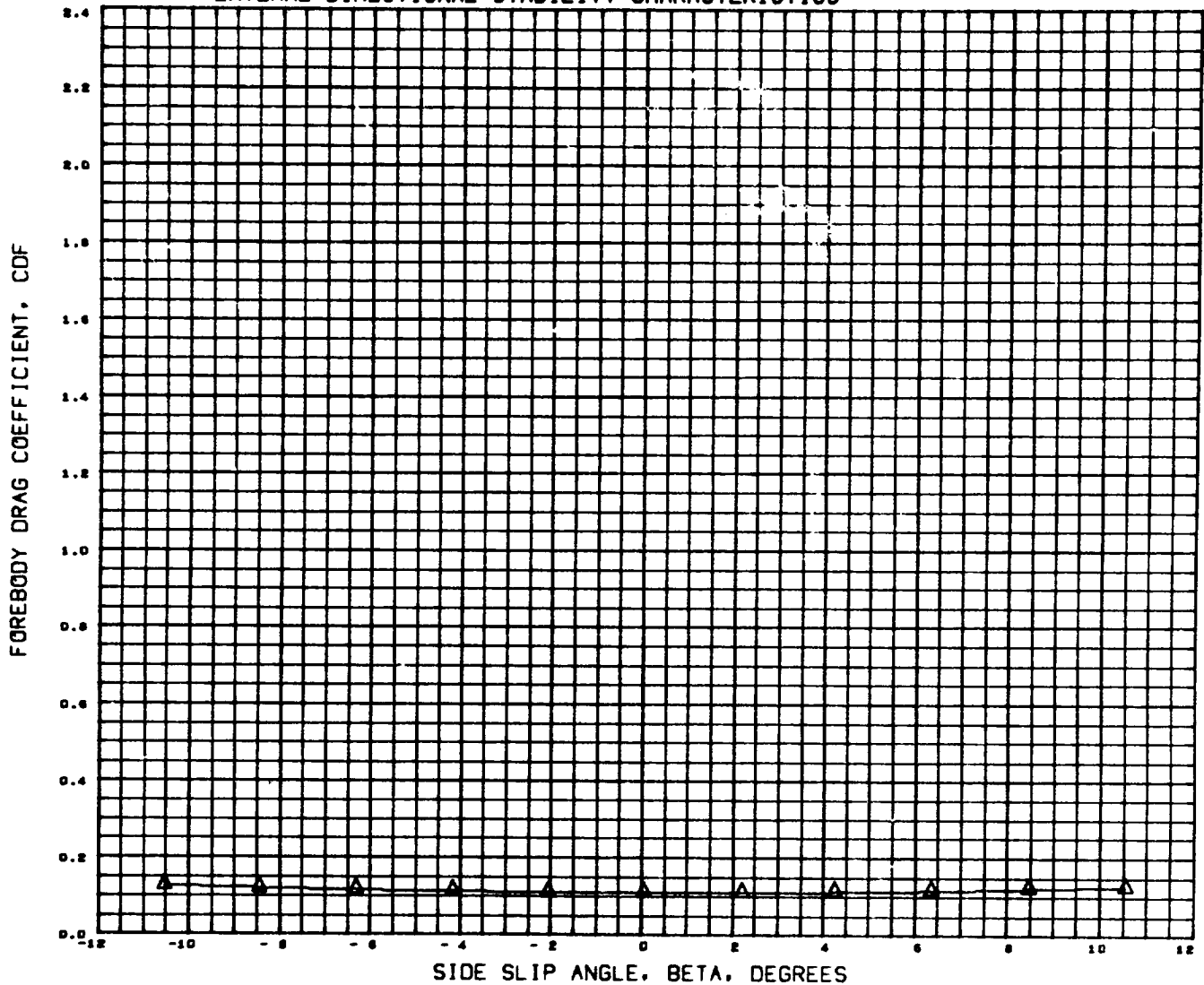
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-NBFC AR11991-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 51.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402P) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-MSFC AR11981-1 MODEL SEC12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

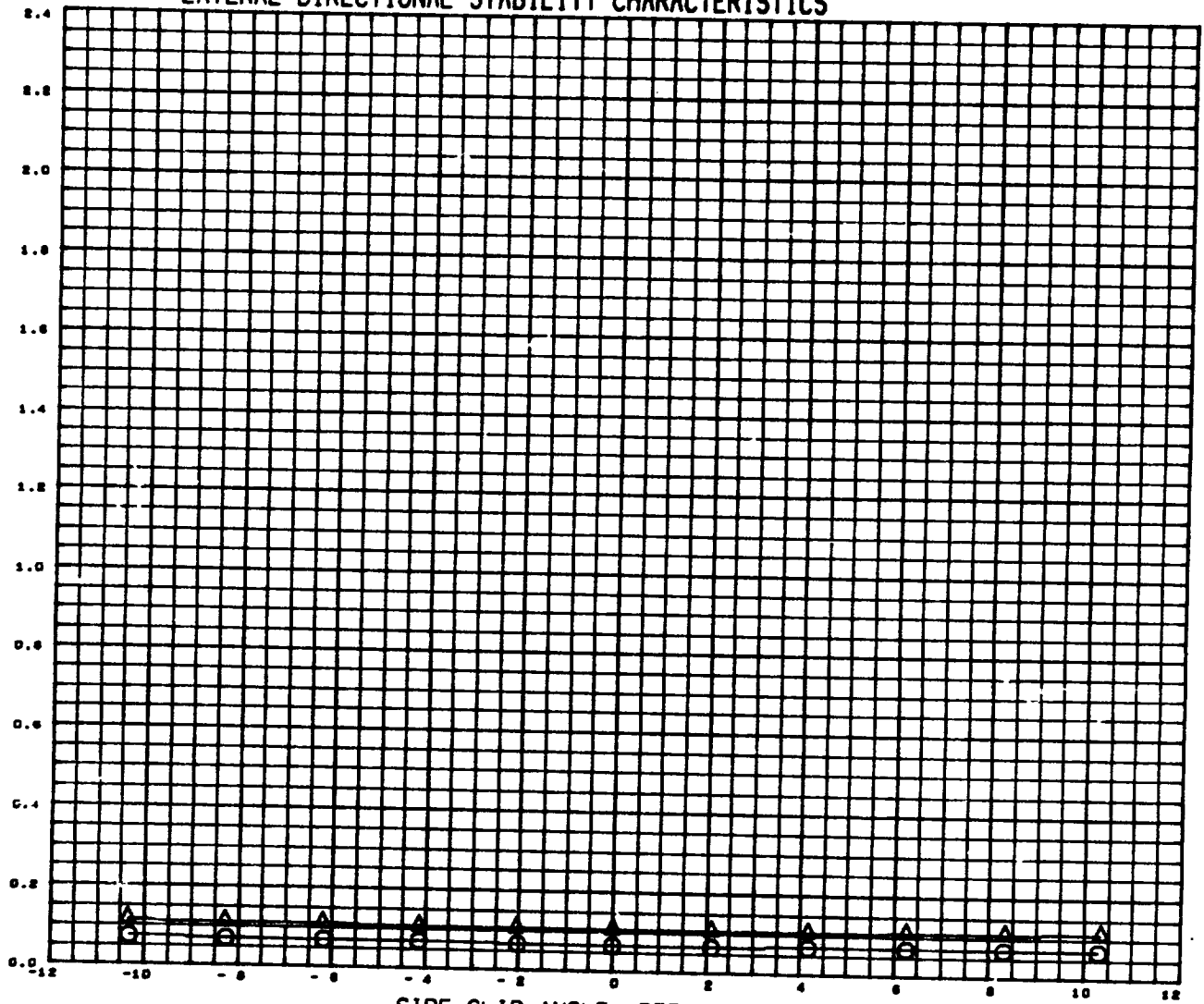
ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 21.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 SQ. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.958

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

FOREBODY DRAG COEFFICIENT, CDF



SIDE SLIP ANGLE, BETA, DEGREES

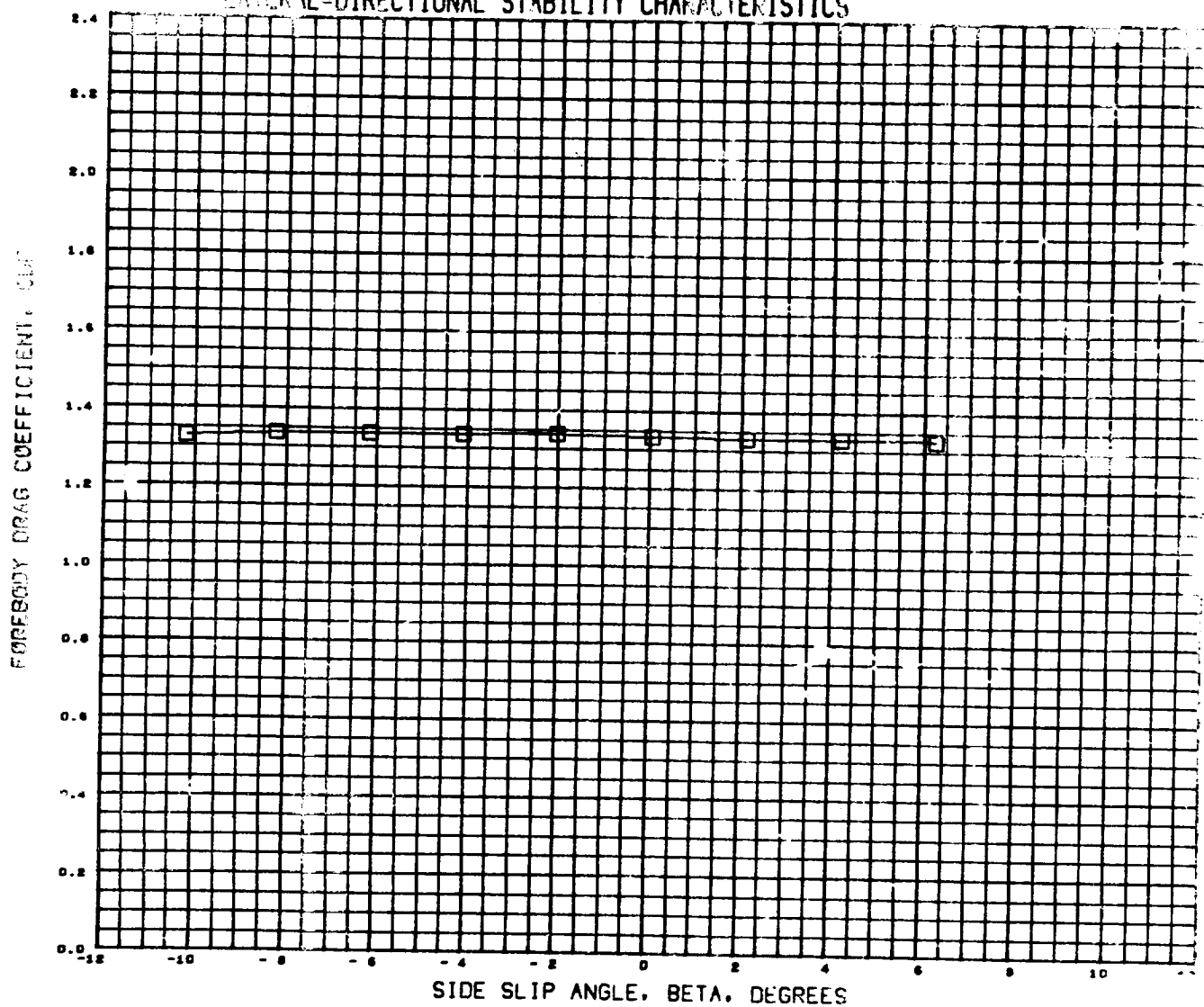
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) M492-MBFC AR11001-1 MODEL B2C12
 (E3402G) M492-MBFC AR11001-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.000 0.000
 21.000 0.000

REFERENCE INFORMATION
 SREF 4.6226 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 3.400

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

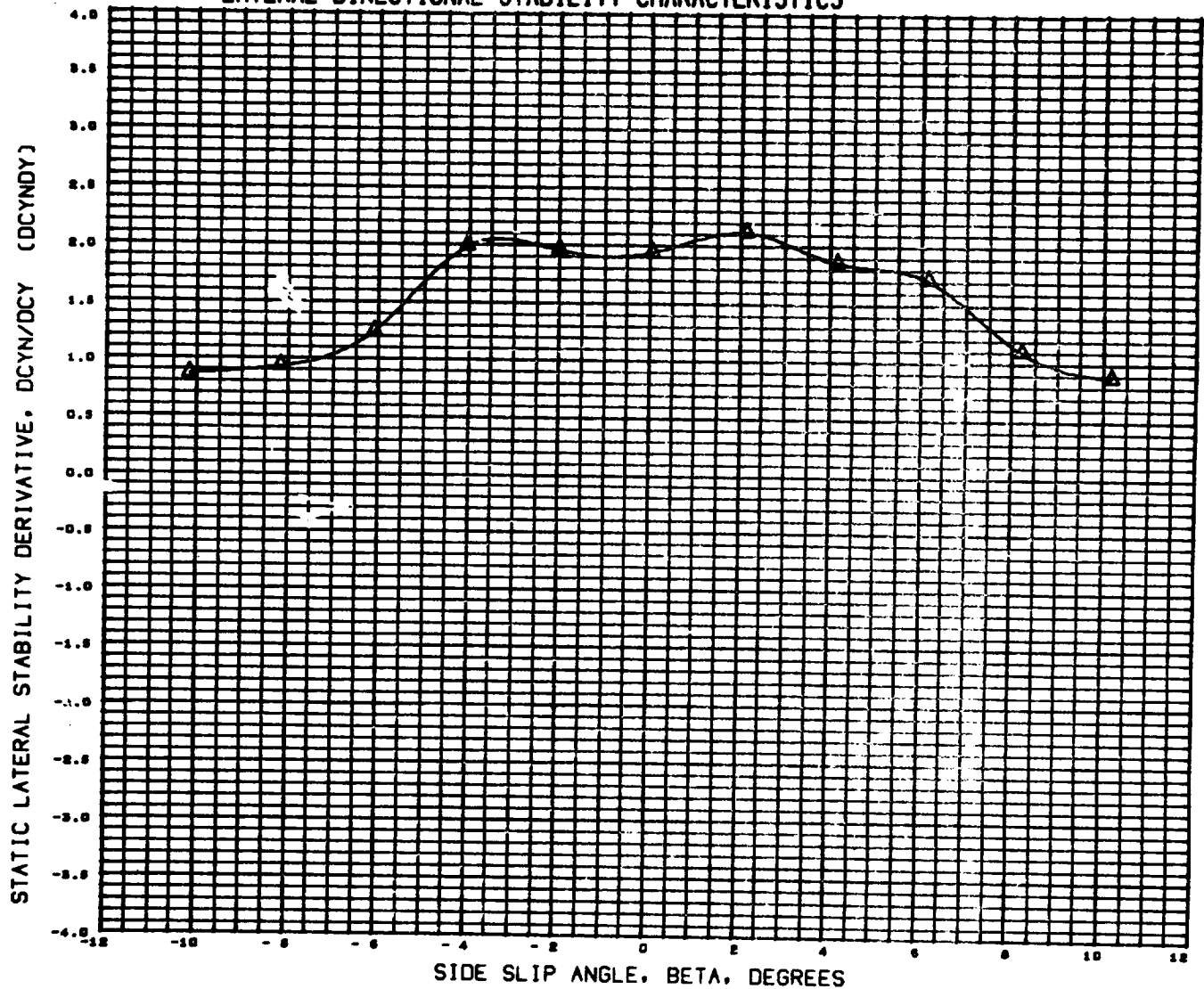


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) M492-MSFC AR1581-1 MODEL BEC12

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
21.000	0.000

REFERENCE INFORMATION	VALUE
SREF	4.6285 50.1
LREF	4.3000 1N
BREF	4.3000 1N
XMRP	2.4000 1N
YMRP	0.0000 1N
ZMRP	0.0000 1N
SCALE	0.0025

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



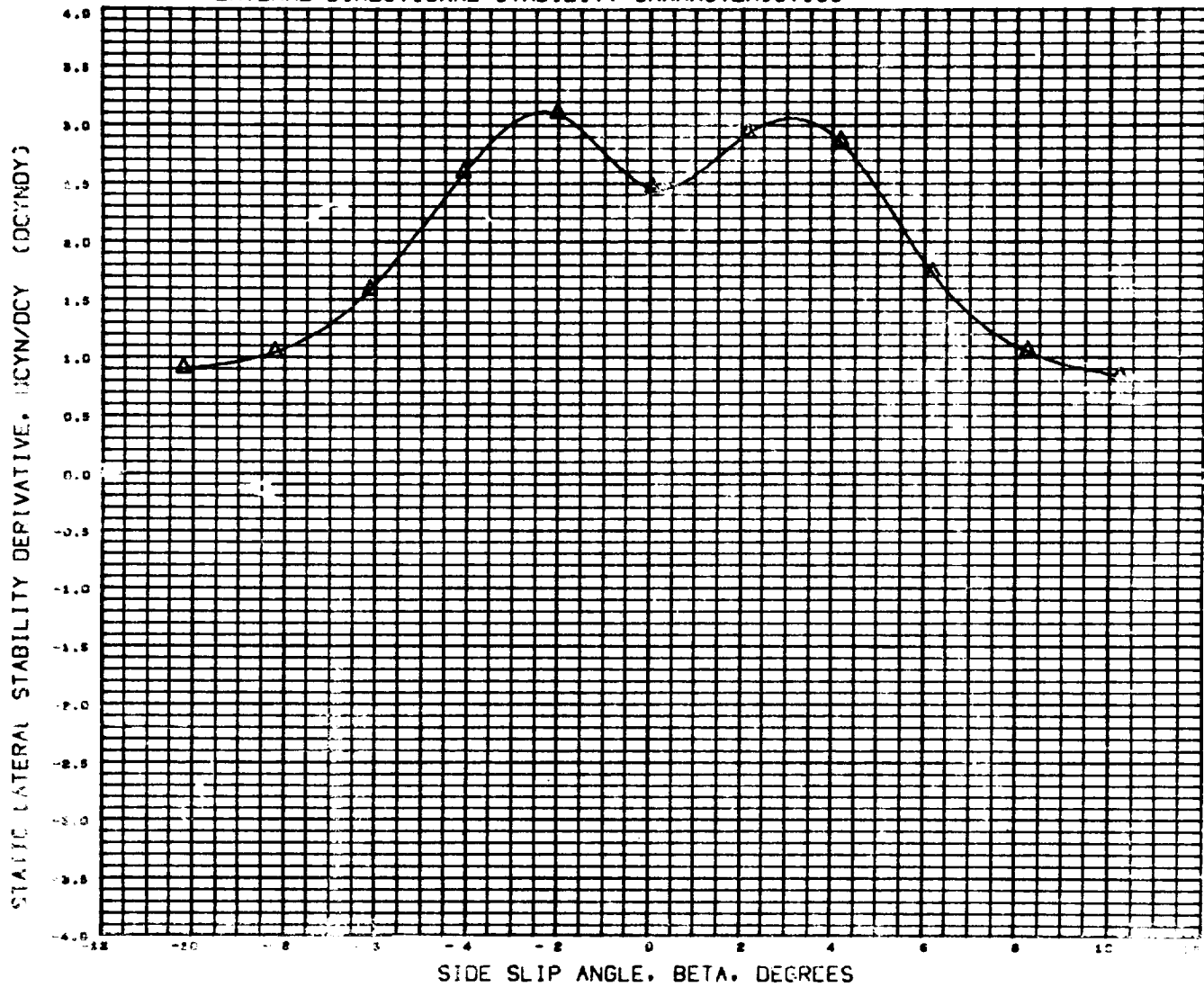
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M402-M8FC AR1001-1 MODEL SEC12
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
51.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	30 IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	8.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.607

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) M492-MSFC AR1971-1 MODEL B2C12
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) DATA NOT AVAILABLE FOR ALL CONDITIONS

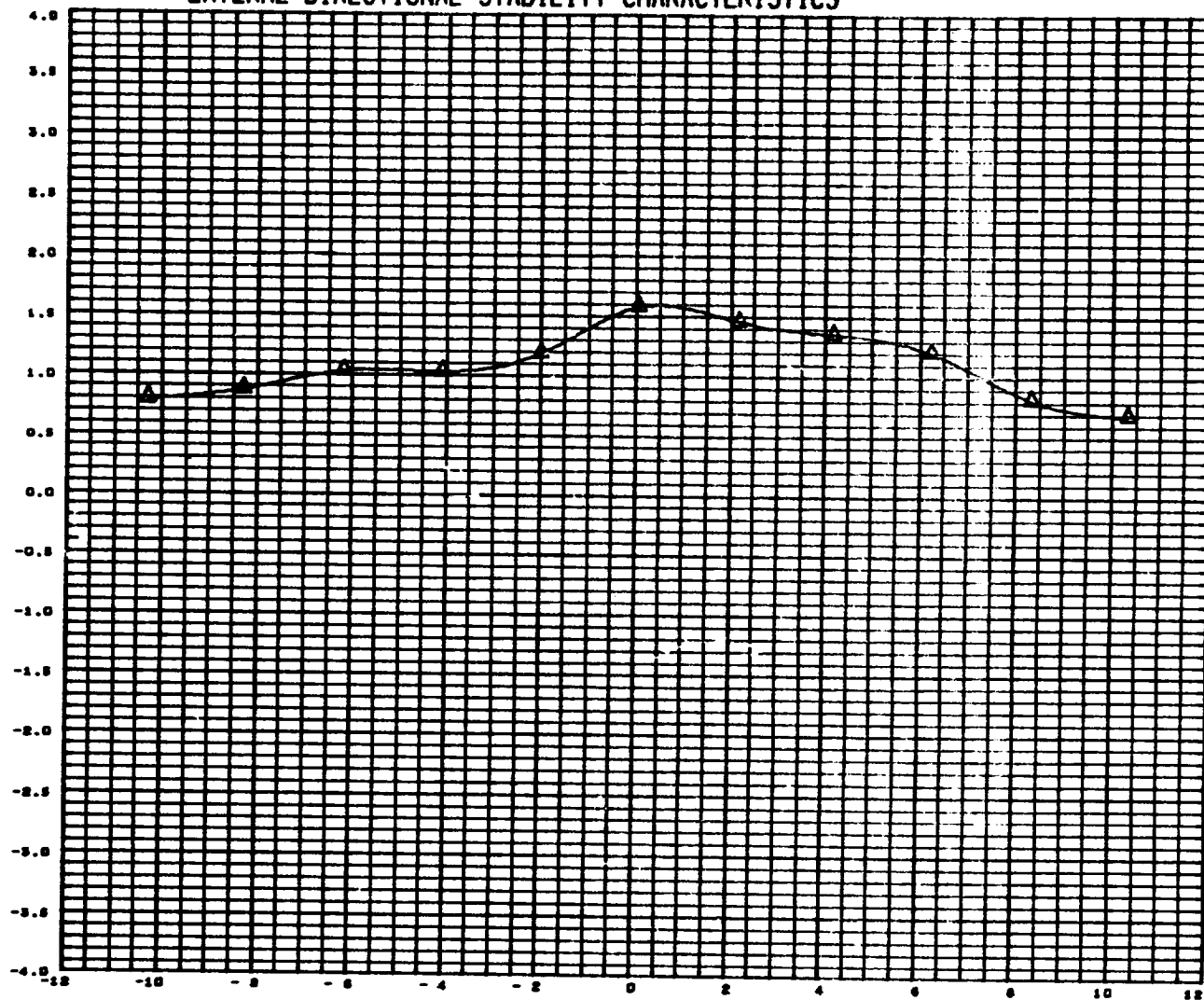
ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 31.000 0.000

REFERENCE INFORMATION
 SREF 4.6225
 LREF 4.3000
 BREF 4.3000
 XMRP 2.4000
 YMRP 0.0000
 ZMRP 0.0000
 SCALE 0.002

NACK 0.000

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

STATIC LATERAL STABILITY DERIVATIVE, DCYN/DCY (DCYNDY)



SIDE SLIP ANGLE, β , DEGREES

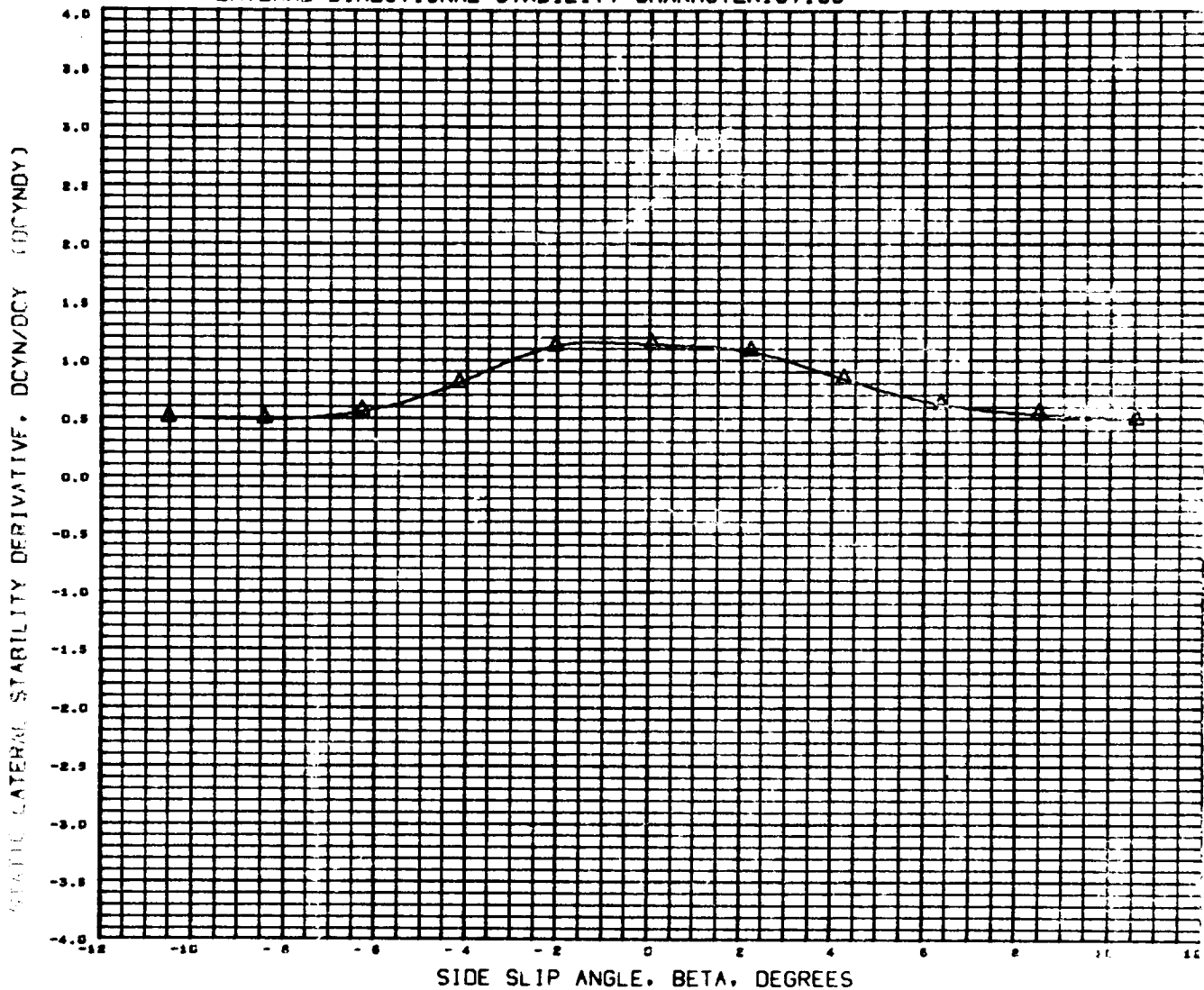
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402G)	M492-HSFC AR11981-1 MODEL B2C12
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS

α	CANARD
0.000	0.000
10.000	0.000
15.500	0.000
51.000	0.000

REFERENCE INFORMATION	
SREF	4.6225 88 IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

NACN 1.195

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



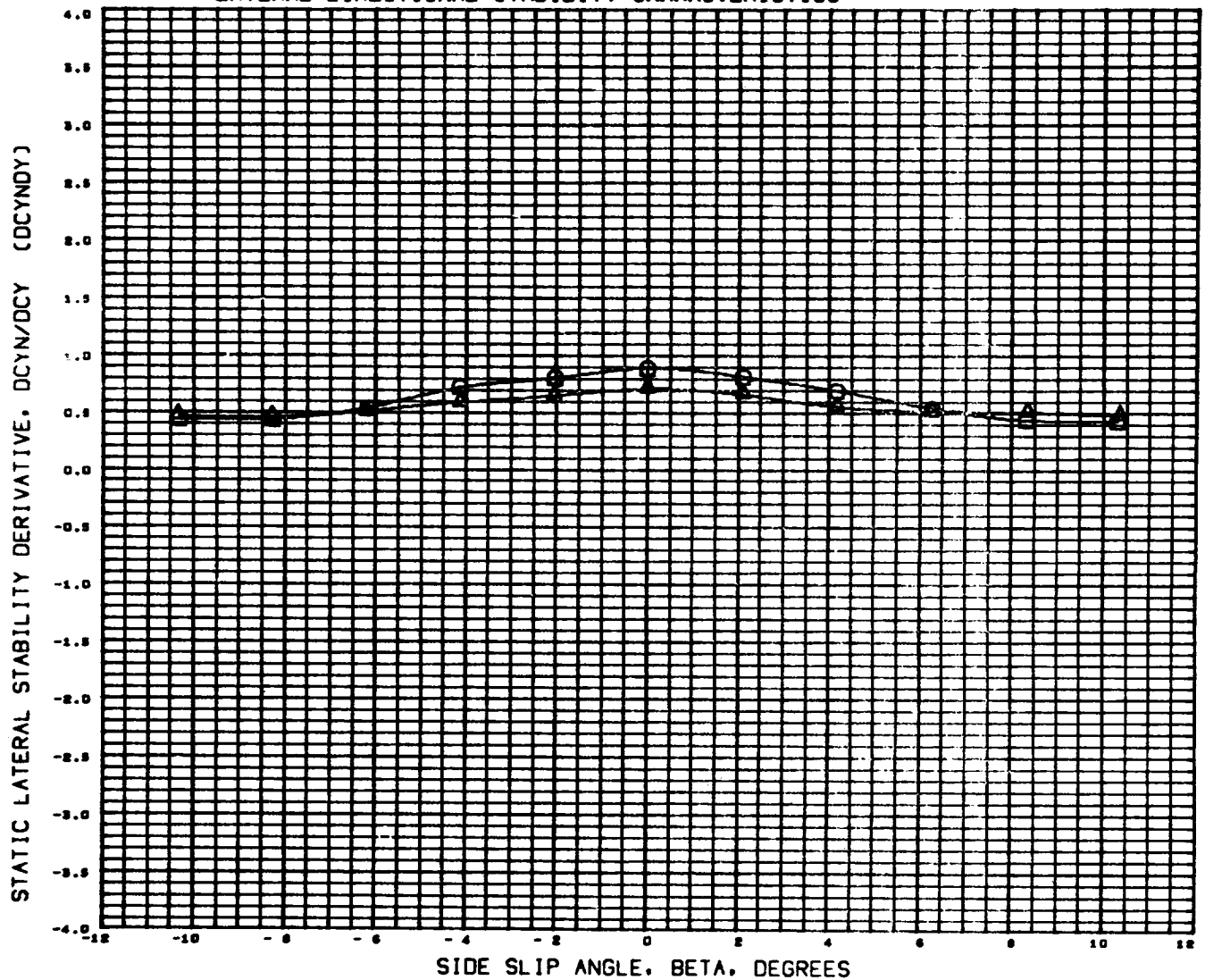
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3402F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402G)	M49E-MSFC AR1.981-1 MODEL B2C12
(E3402H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3402I)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD
0.000	0.000
10.000	0.000
15.000	0.000
21.000	0.000

REFERENCE INFORMATION	
SREF	4.5225 50.1%
LREF	4.3000 1%
BREF	4.3000 1%
XMRP	2.4000 1%
YMRP	0.0000 1%
ZMRP	0.0000 1%
SCALE	0.002%

MACH 1.95

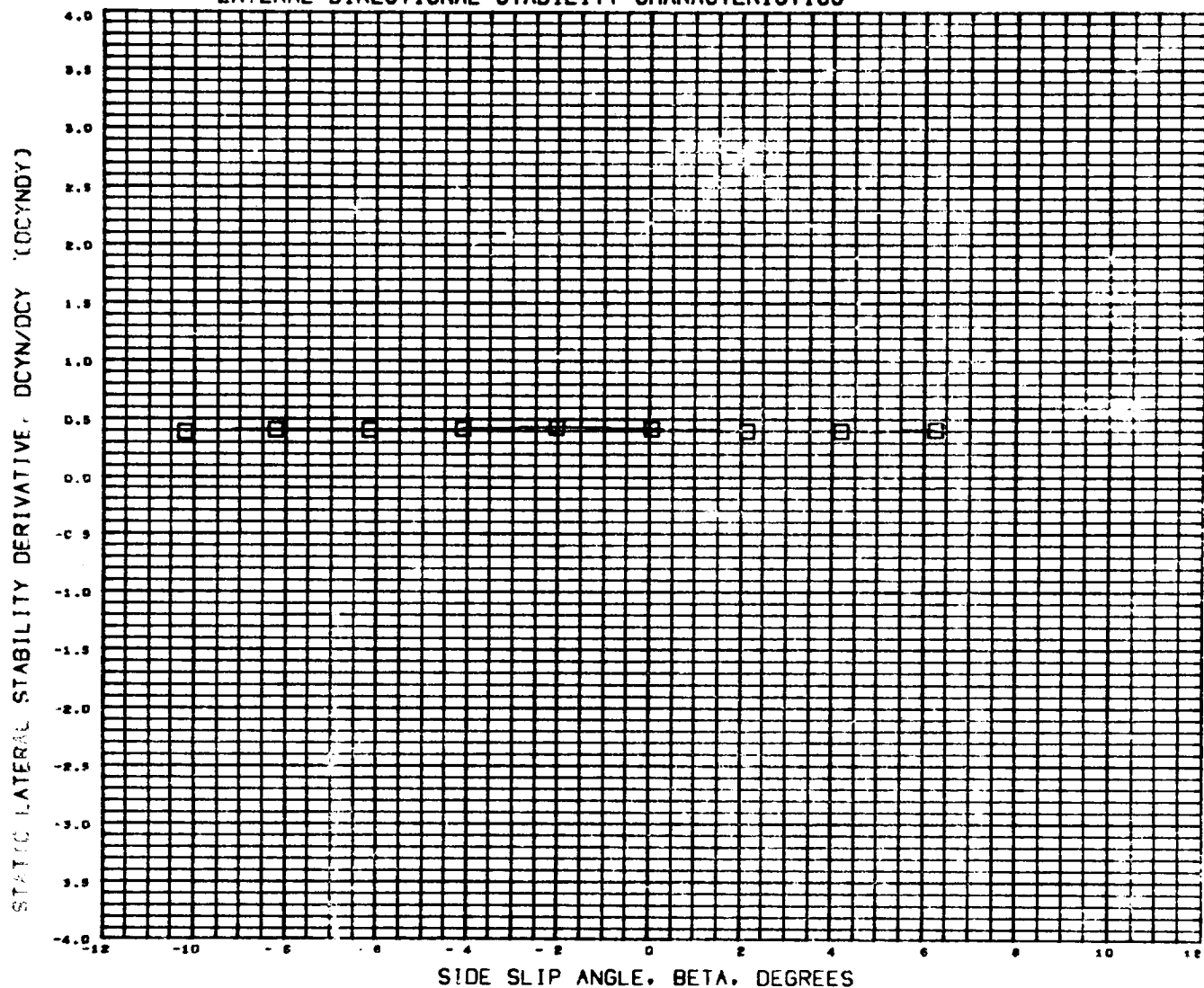
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	REFERENCE INFORMATION
(E3402F)	N492-HSFC AR11981-1 MODEL B2C12	0.000	0.000	SREF 4.6225 SQ. IN.
(E3402G)	N492-HSFC AR11981-1 MODEL B2C12	10.000	0.000	LREF 4.3000 IN.
(E3402H)	N492-HSFC AR11981-1 MODEL B2C12	15.500	0.000	BREF 4.3000 IN.
(E3402J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	XMRP 2.4000 IN.
				YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



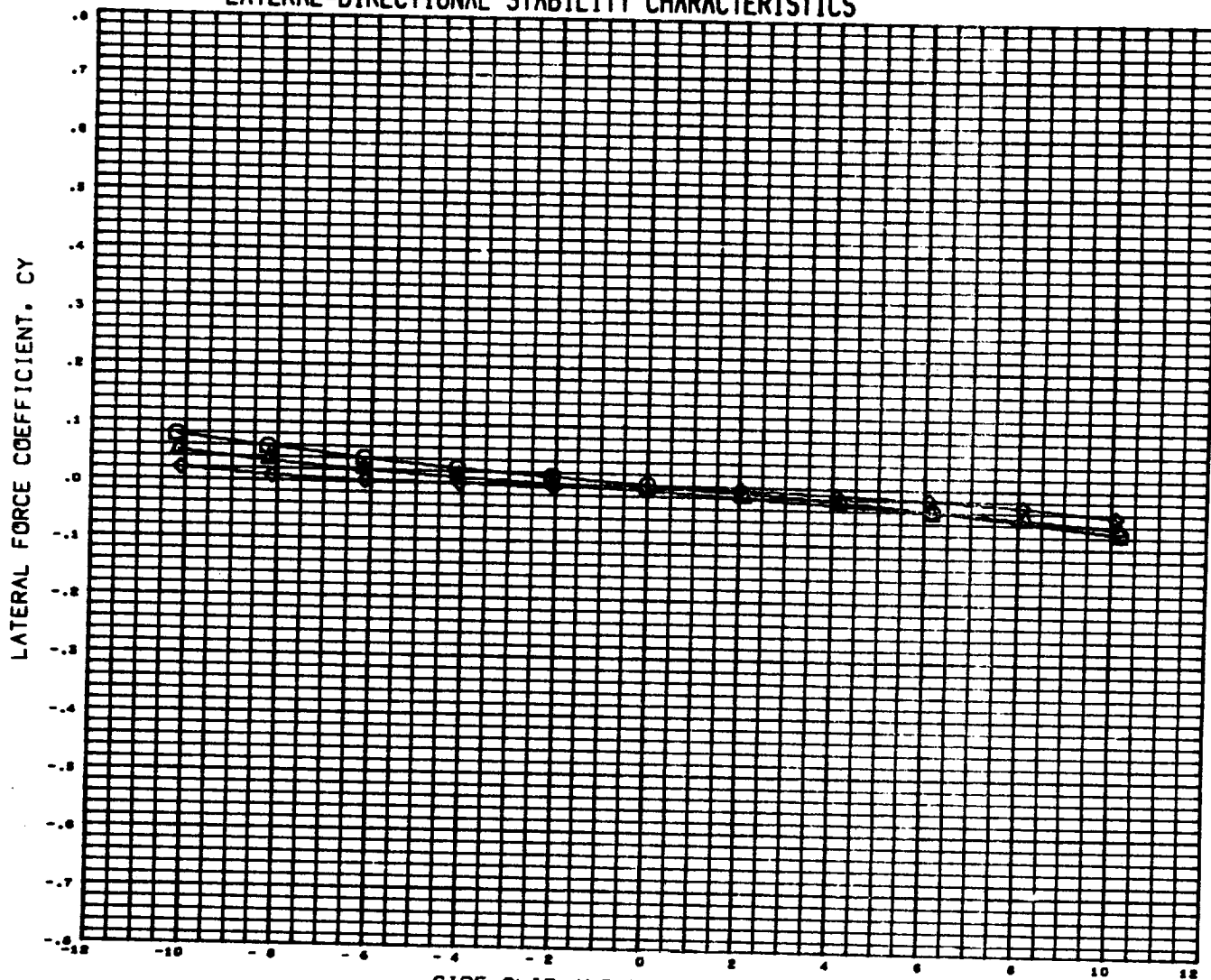
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3402F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3402J) M492-1500 AR115 1-1 MODEL B2C12

ALPHA CANARD
 0.000 0.000
 10.000 0.000
 15.500 0.000
 51.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 50.1N
 LREF 4.3000 1N
 BREF 4.3500 1N
 XMRP 3.4000 1N
 YMRP 0.0000 1N
 ZMRP 0.0000 1N
 SCALE 0.0025

MACH 0.559

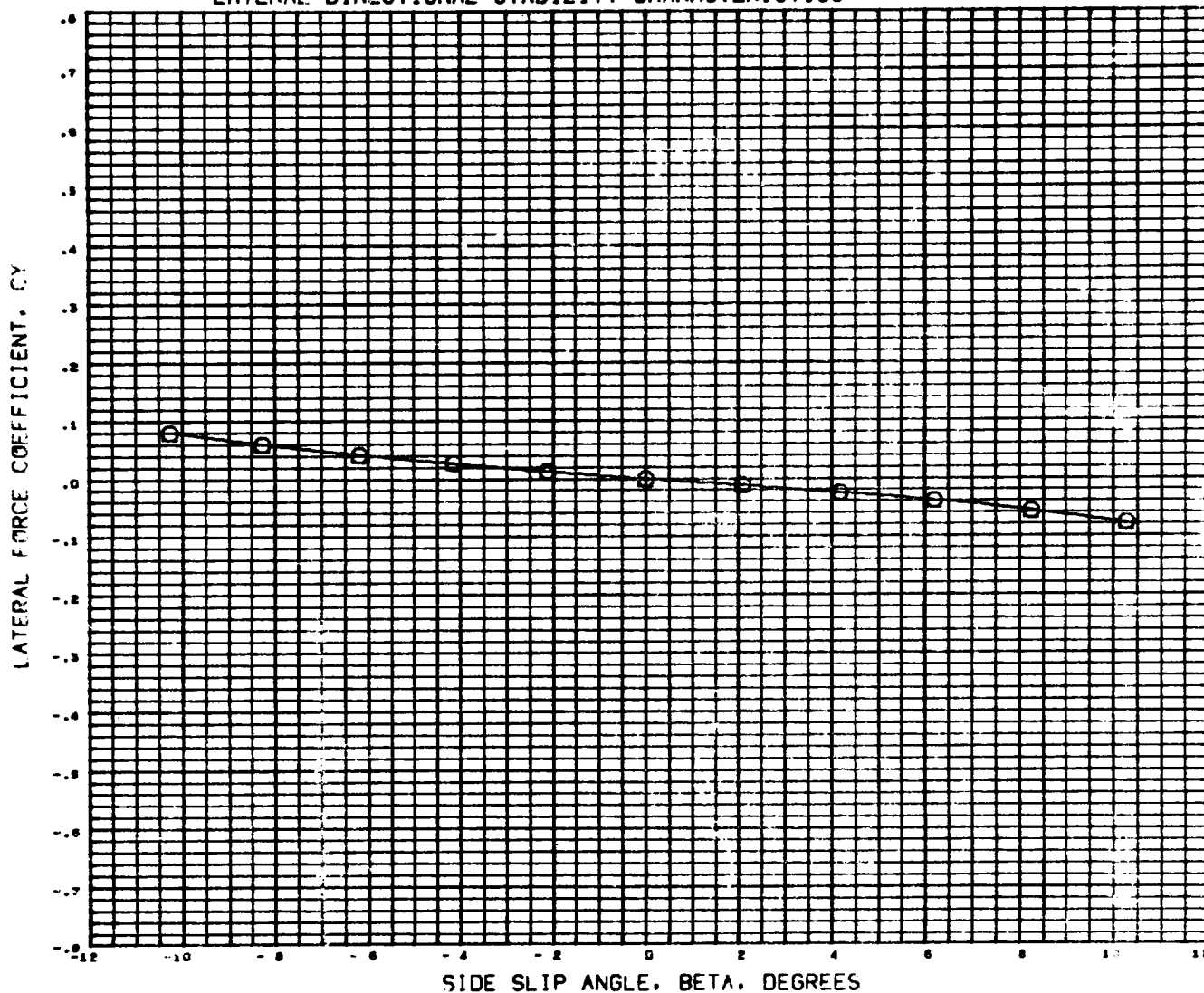
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E9404F)	M492-NSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E9404G)	M492-NSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(F9404H)	M492-NSFC AR11981-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	SREF 4.3000 in.
(E9404I)	M492-NSFC AR11981-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 in.
(E9404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 0.600

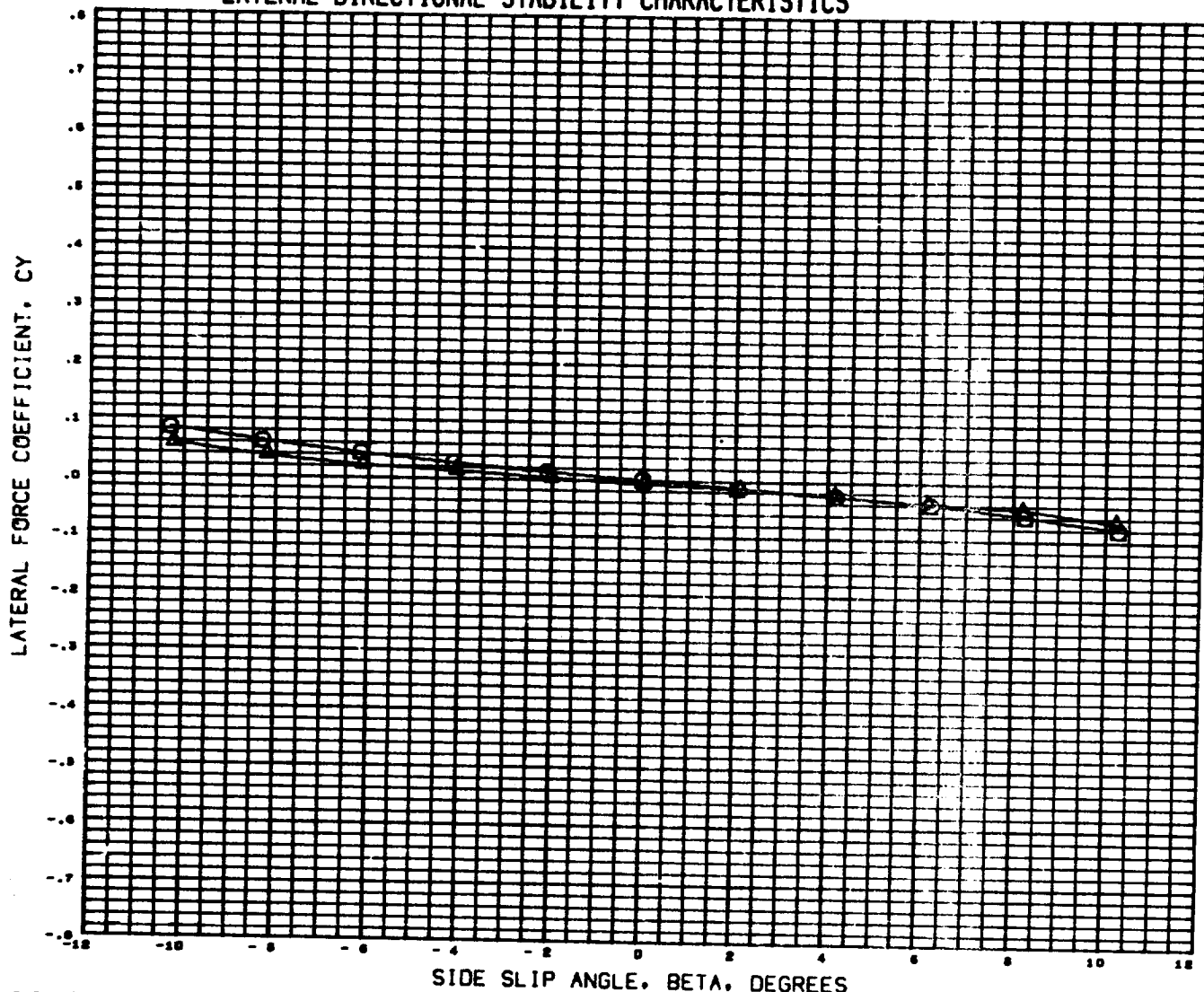
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR1581-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	BREF 4.6224 50.11
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 1P
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 1P
						ZNRP 0.0000 1P
						SCALE 0.0024

MACH 0.80

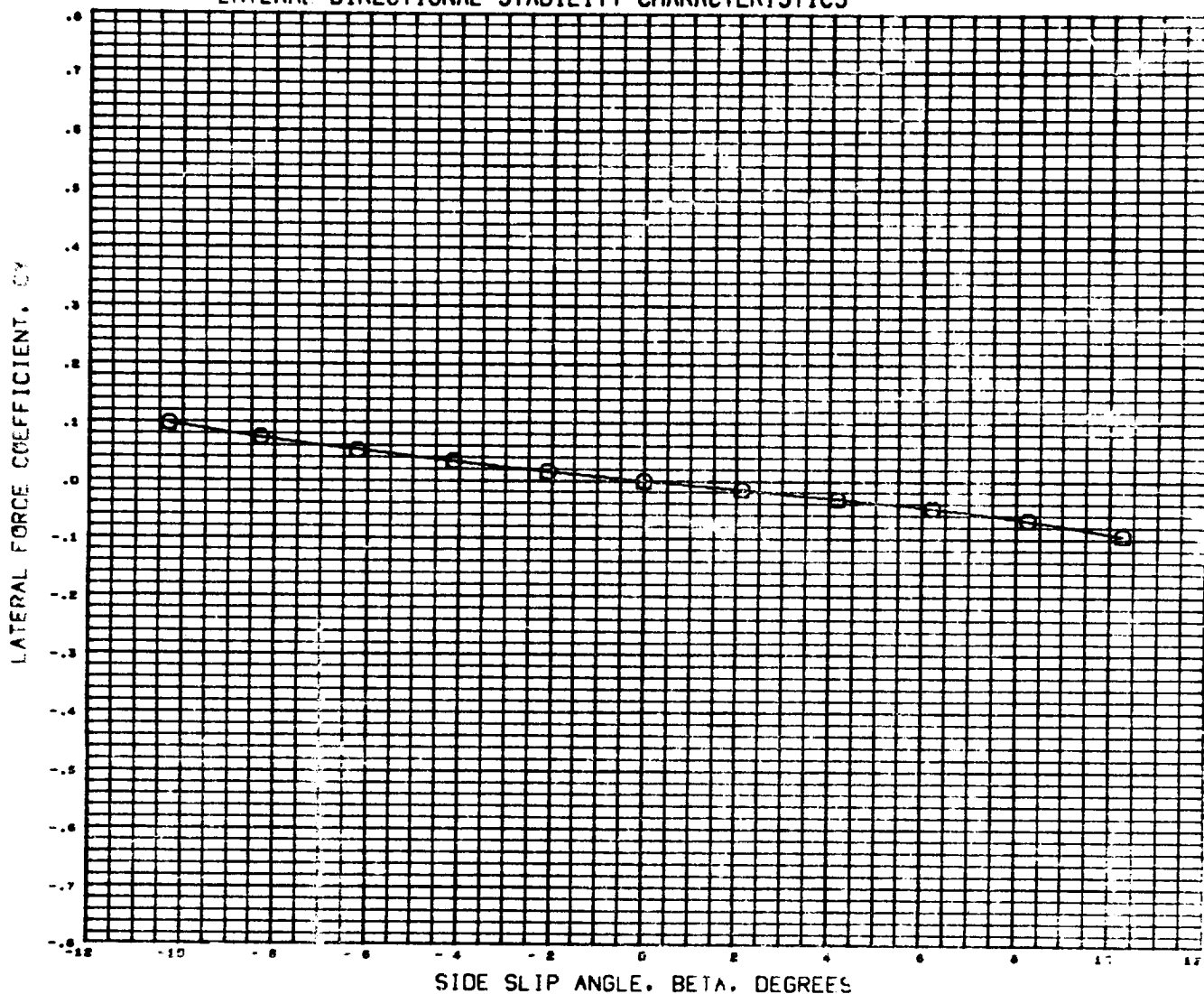
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-NSFC ARI1961-1 MODEL 82WEC12	0.000	0.000	0.000	0.000	SREF 4.6295 38.1N.
(E3404G)	M492-NSFC ARI1961-1 MODEL 82WEC12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	19.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.894

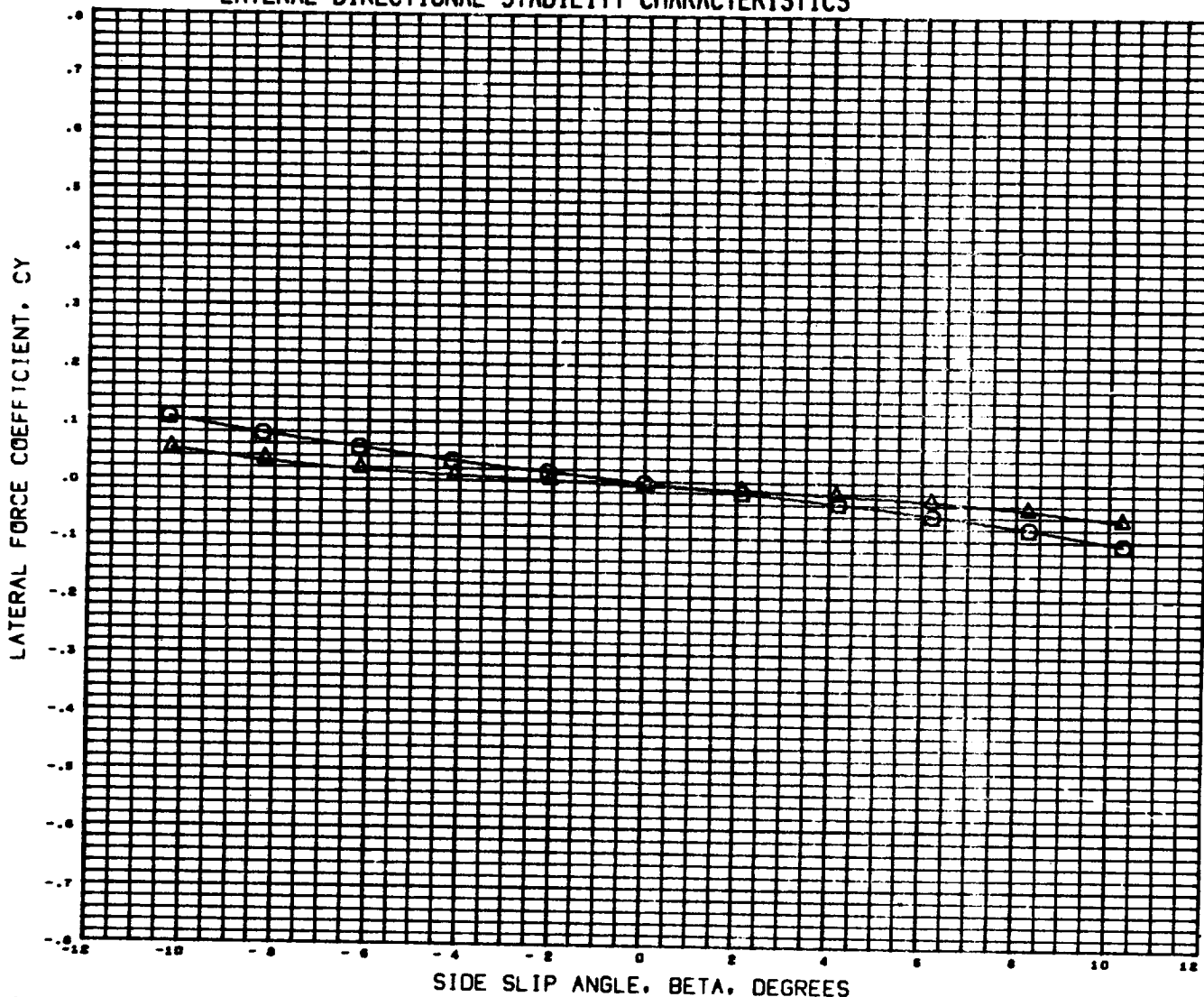
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC ARJ-81-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6221 30.1
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 10
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 10
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 2.4000 10
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 10
						ZMRP 0.0000 10
						SCALE 0.0020 10

RACH 0.947

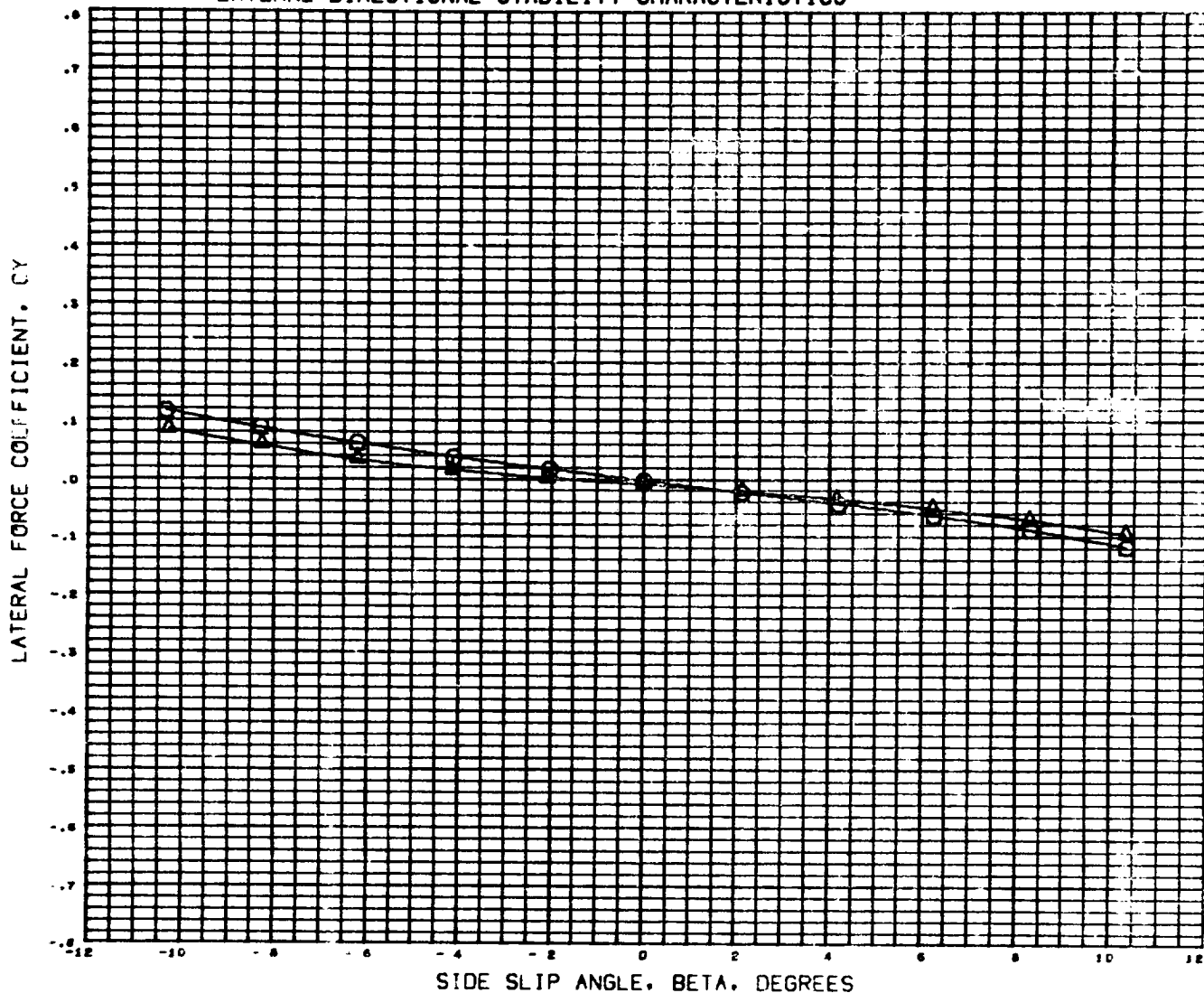
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-HSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 36 IN.
(E3404G)	M492-HSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.997

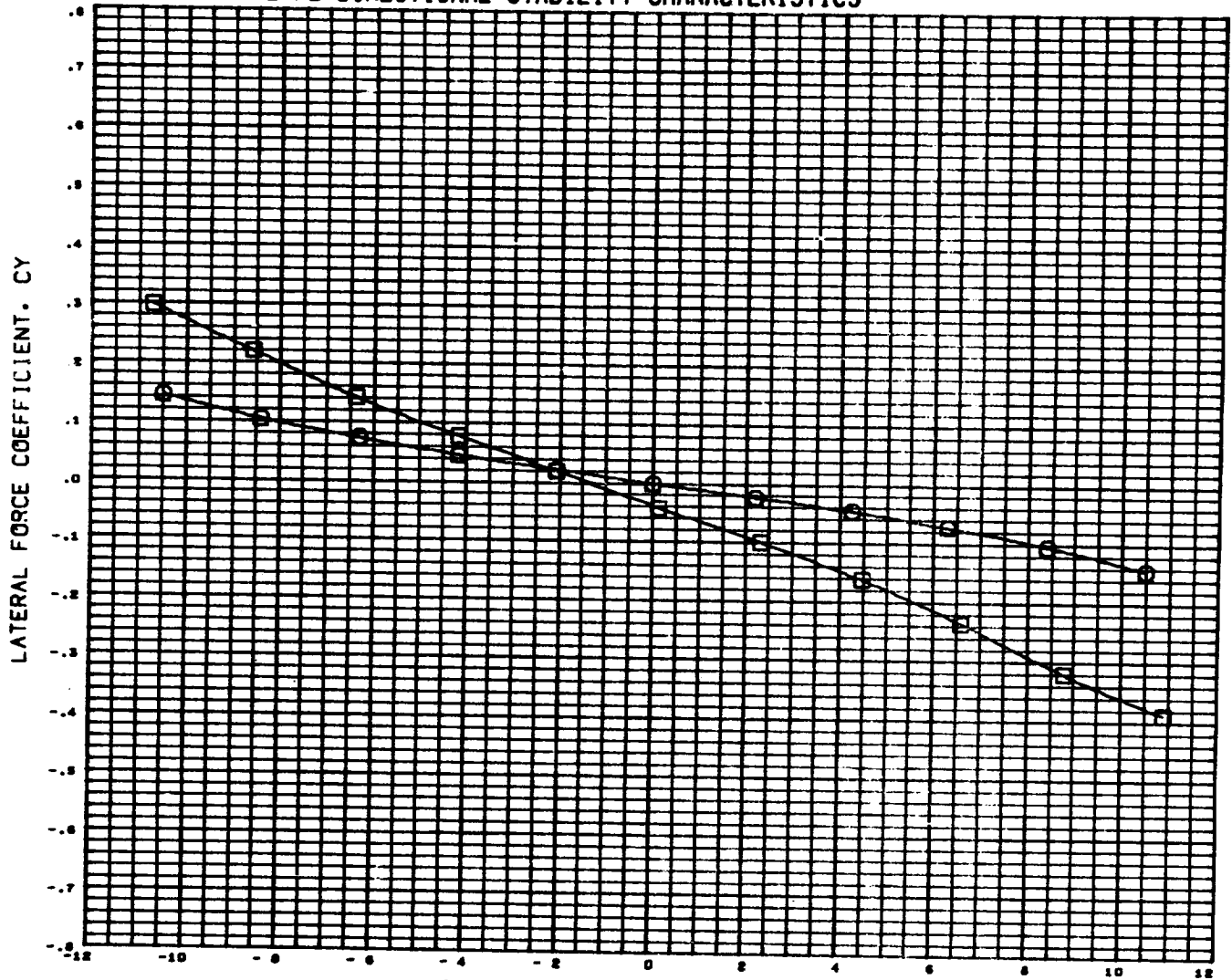
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MBFC AR119 I-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	BREF 4.6225 SS.7N
(E3404G)	M492-MBFC AR119 I-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 "N
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 "N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 "N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 "N
						ZMRP 0.0000 "N
						SCALE 0.0005

MACH 0.98

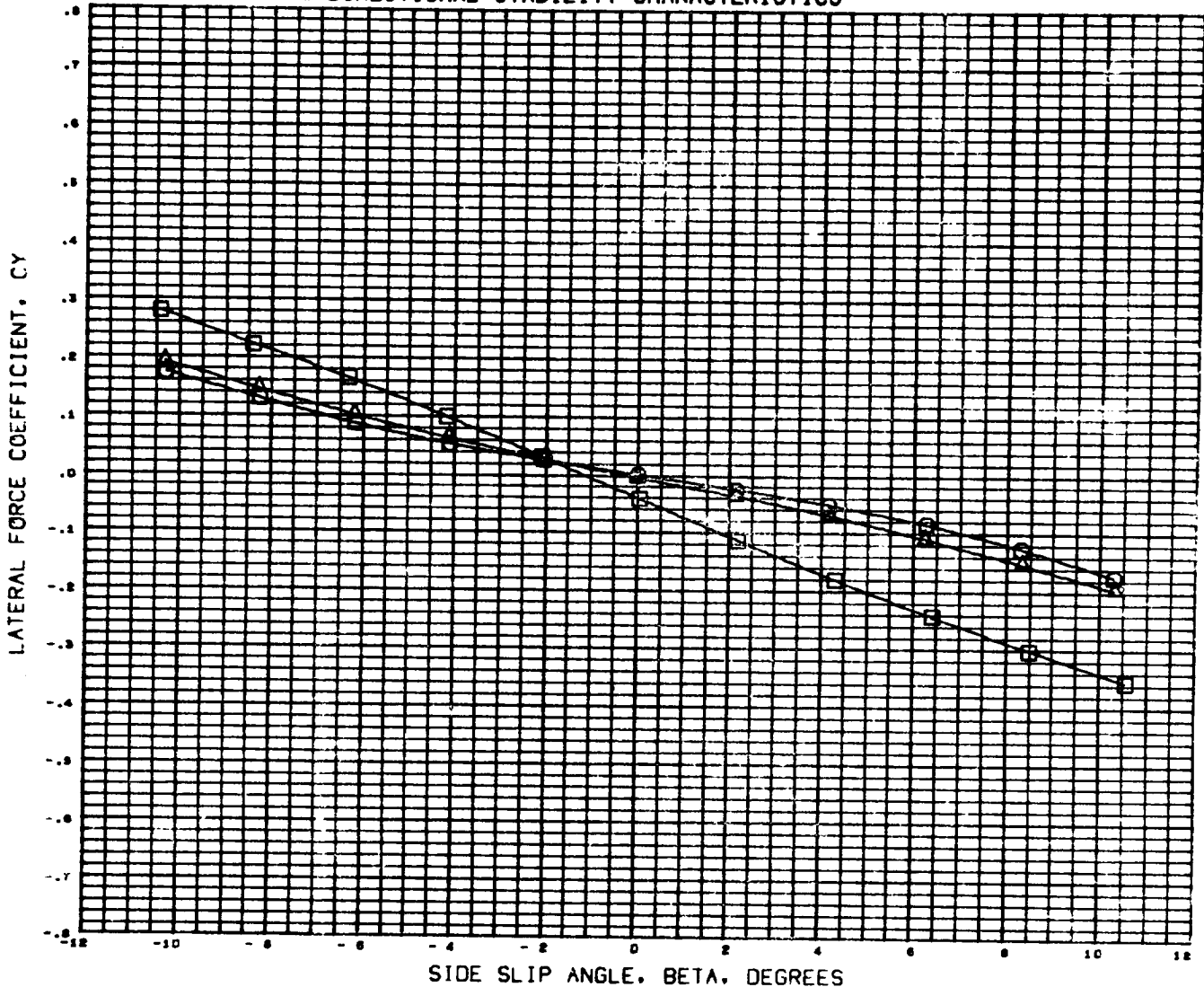
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11901-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6325 56. IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-MSFC AR11901-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.999

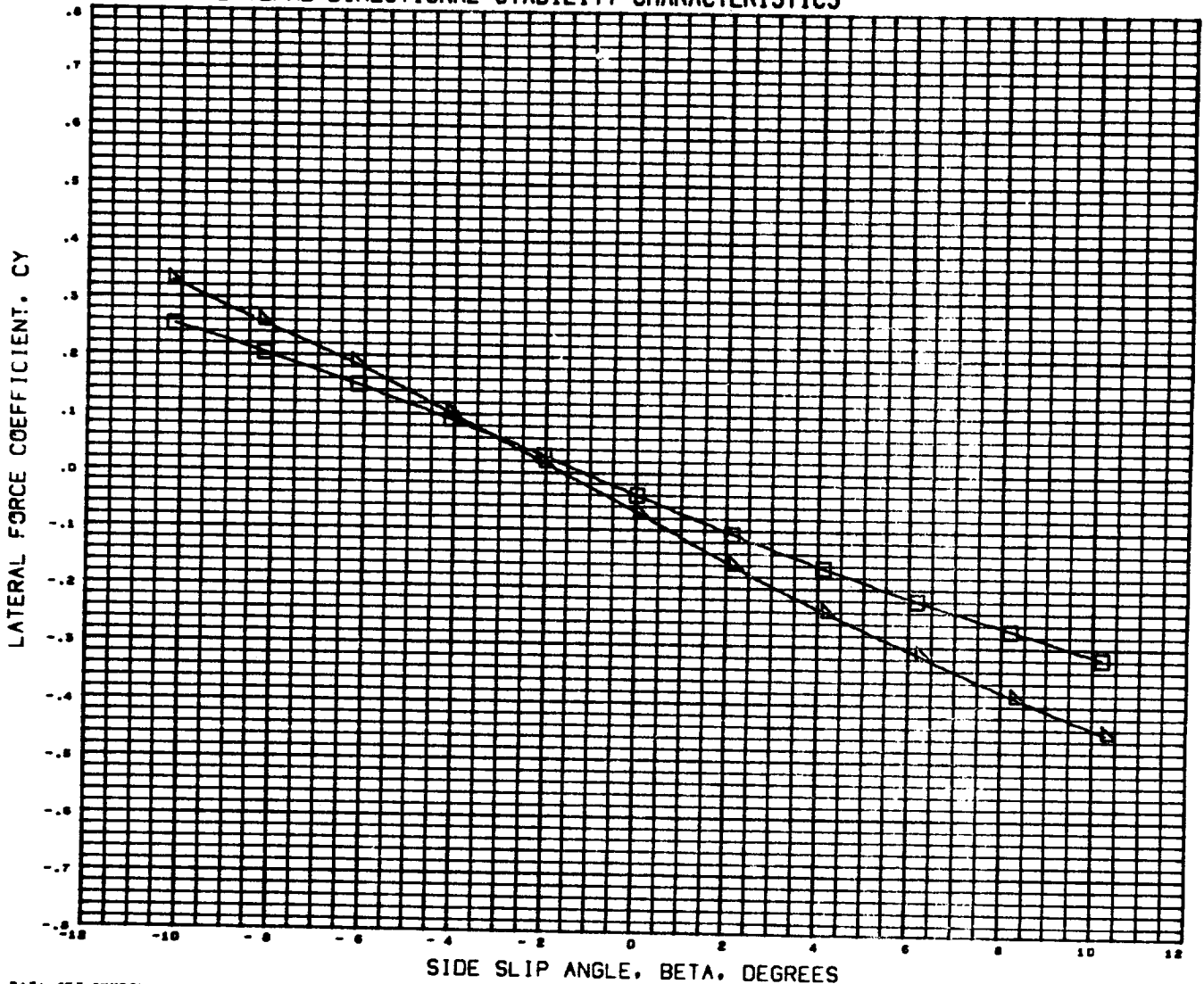
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E34041)	M492-NSFC AR119-J1-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.0225 50.1N
(E34042)	M492-NSFC AR119-J1-2 MODEL B2W6C12	10.500	0.000	0.000	0.000	LRFP 4.5000 1N
(E34043)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BRFP 4.3000 1N
(E34044)	M492-NSFC AR119-J1-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XRFP 2.4000 1N
(E34045)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 2.400

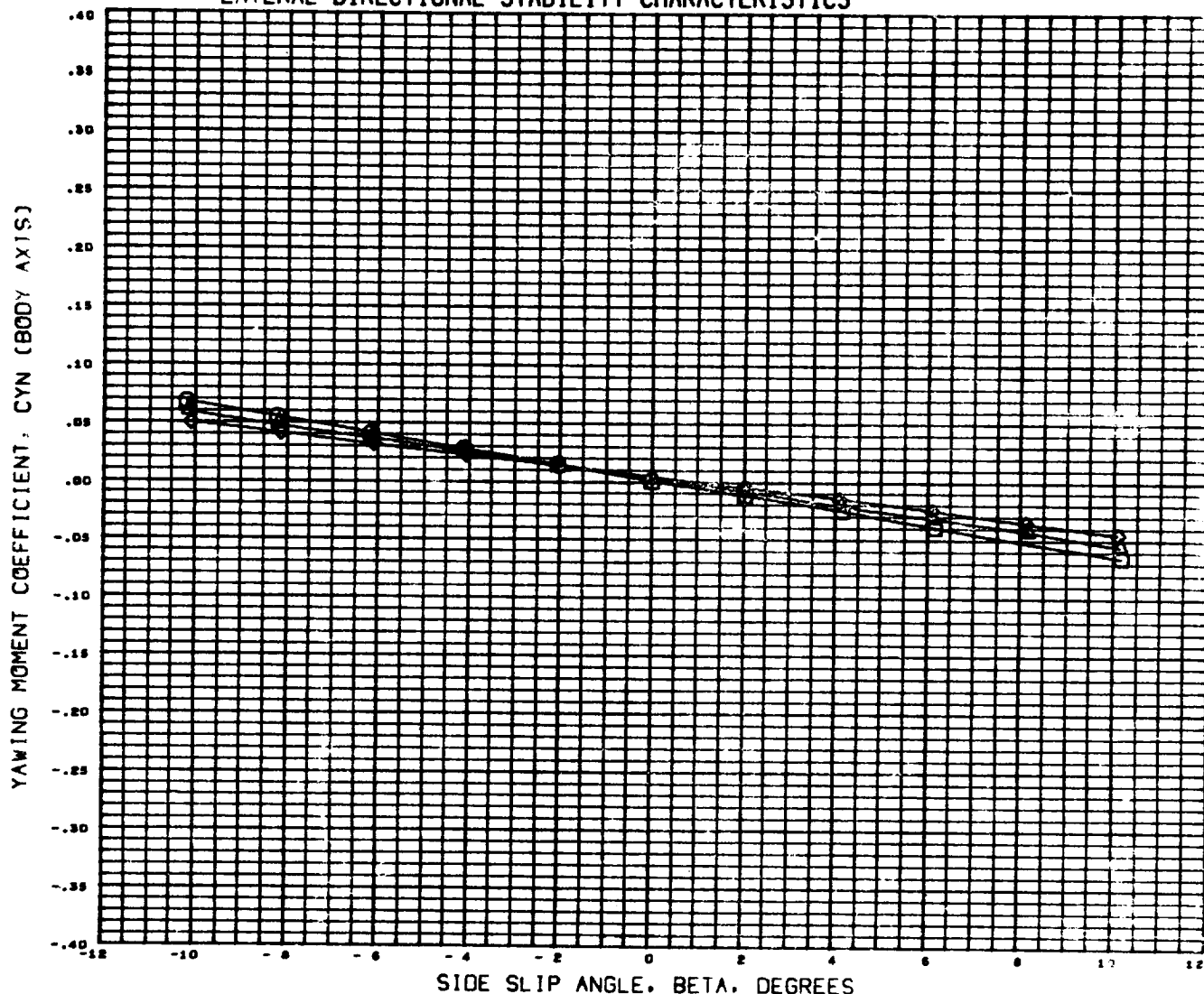
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.9225 30 IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-HSFC AR11981-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	M492-HSFC AR11981-1 MODEL 82W6C12	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

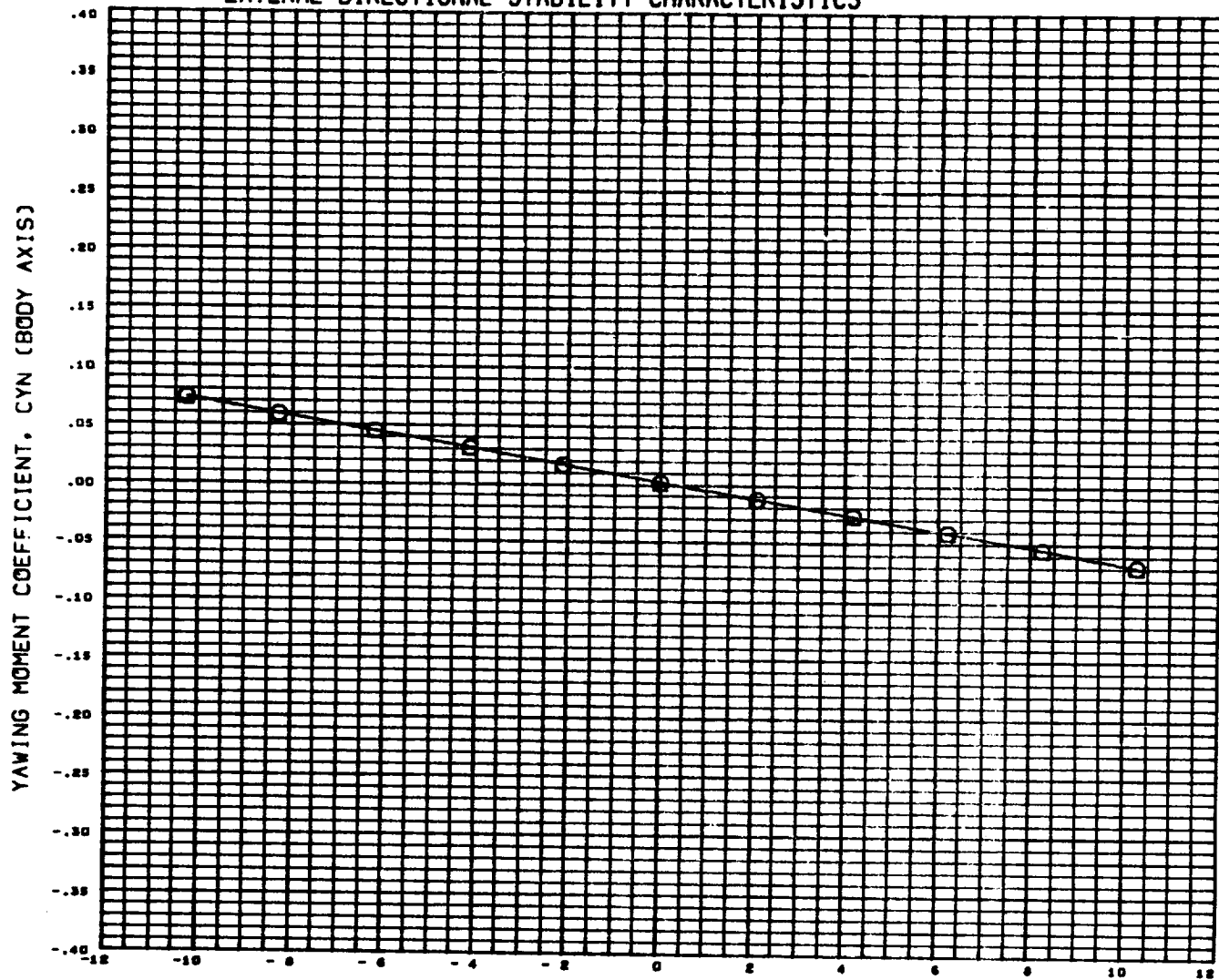


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	○	N492-MSFC AR11581-1 MODEL BW6C12	0.000	0.000	0.000	0.000	BREF 4.6225 50. IN
(E3404G)	○	N492-MSFC AR11581-1 MODEL BW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(F3404H)	○	N492-MSFC AR11581-1 MODEL BW6C12	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 1N
(E3404J)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 1N
							ZMRP 0.0000 1N
							SCALE 0.0025

MACH 0.600

7④

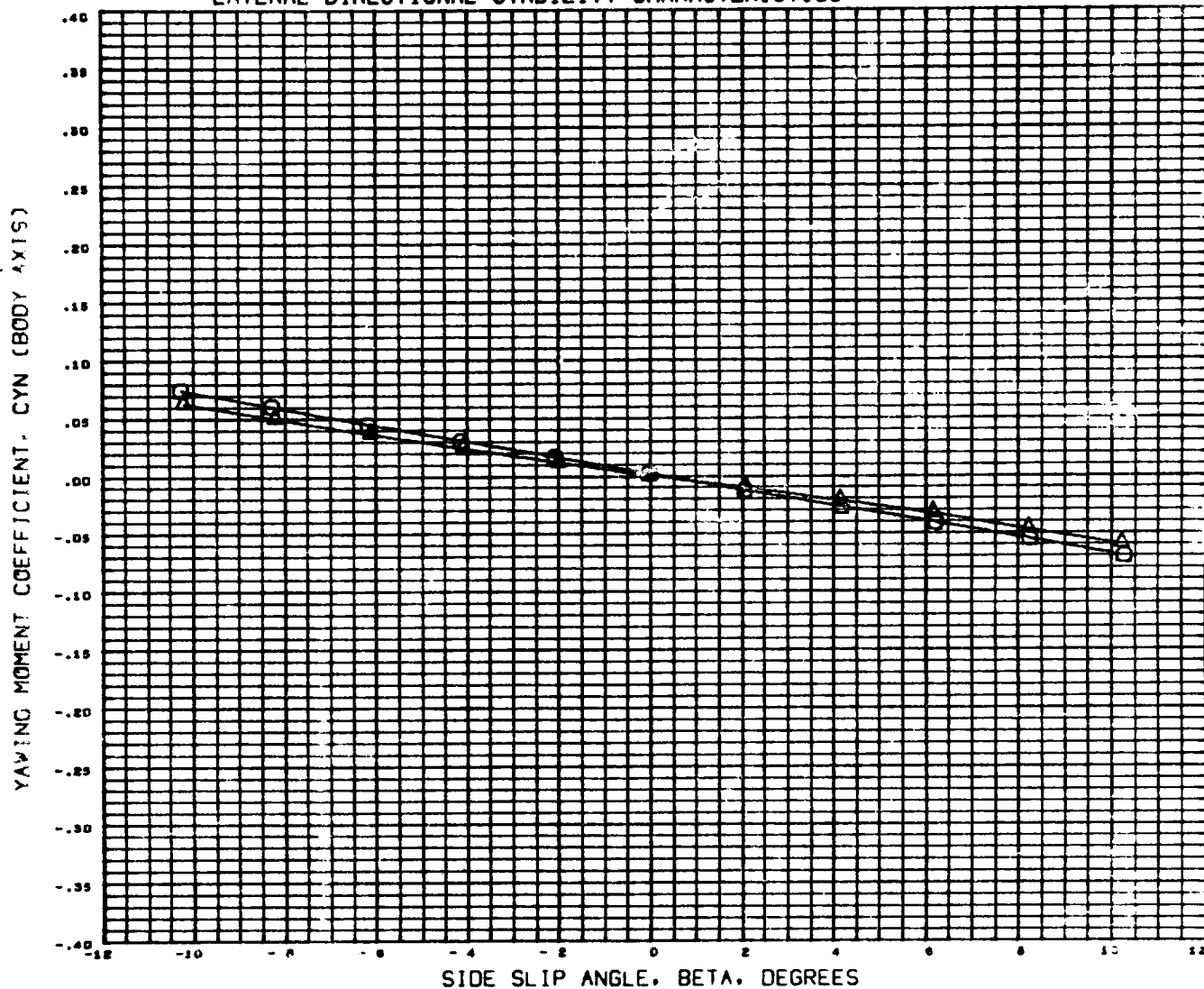
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR15081-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.801

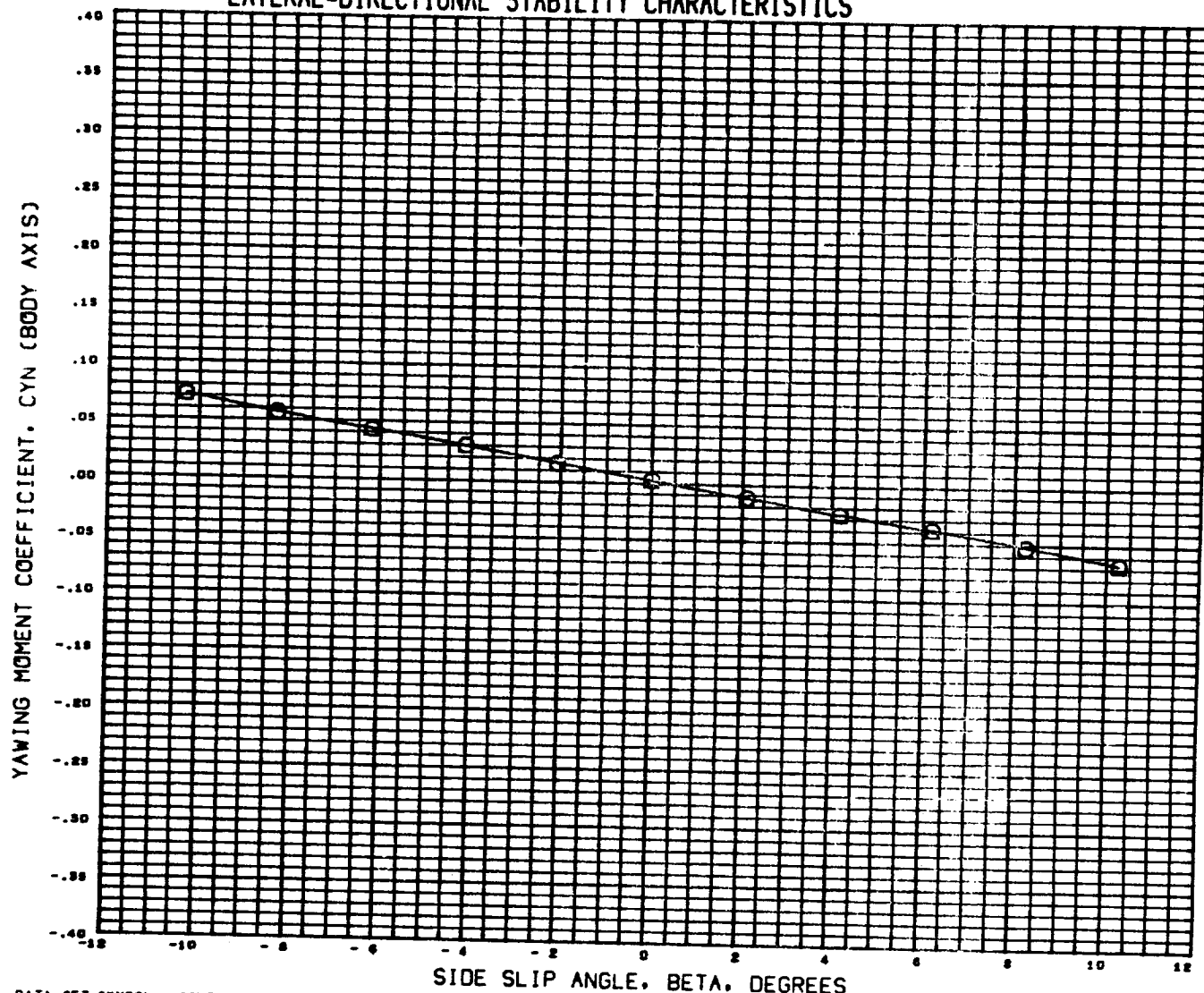
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-HSFC AR11-81-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6275 99.1N
(E3404G)	N492-HSFC AR11 81-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 0.095

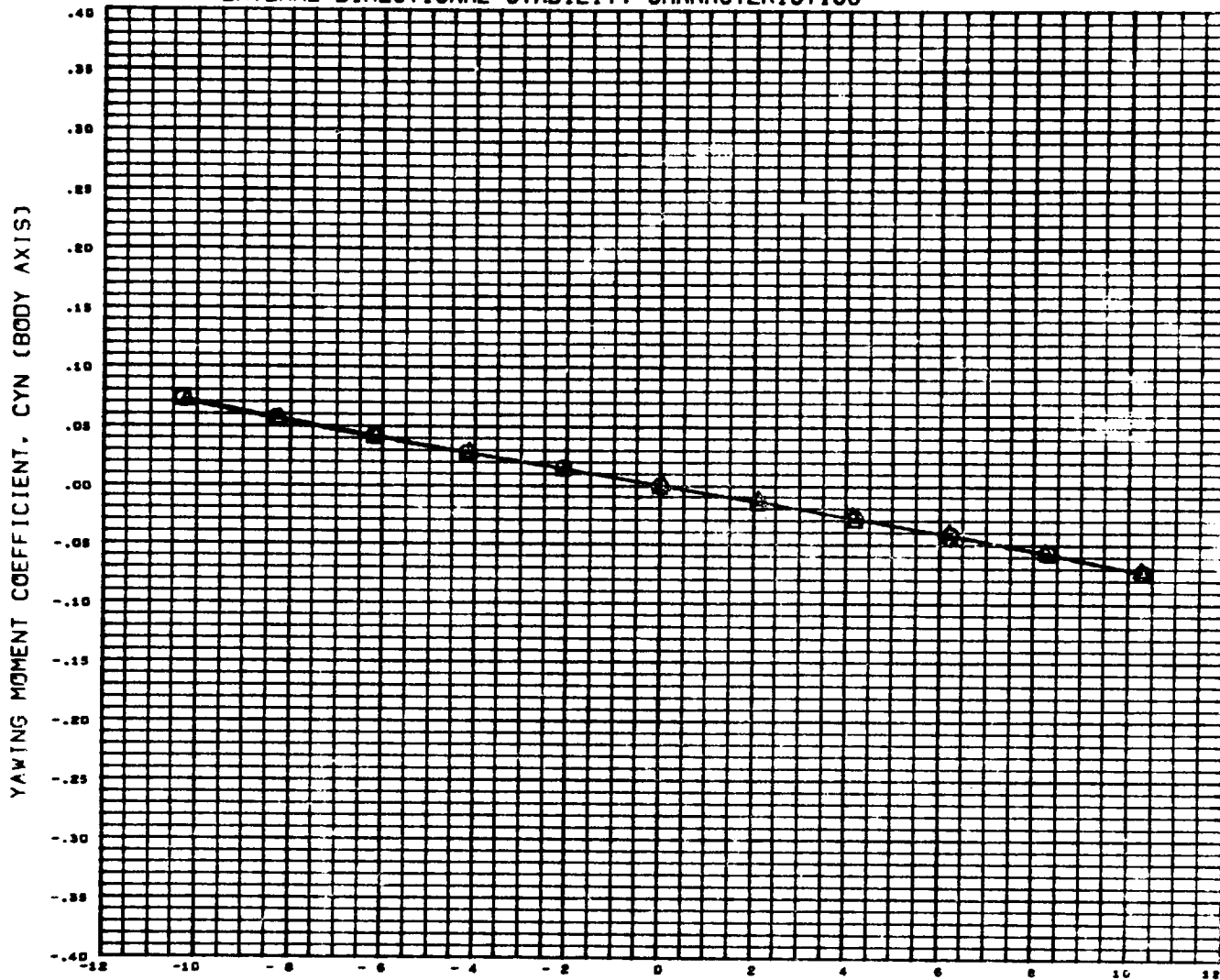
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11001-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF 4.6285 88.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.947

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

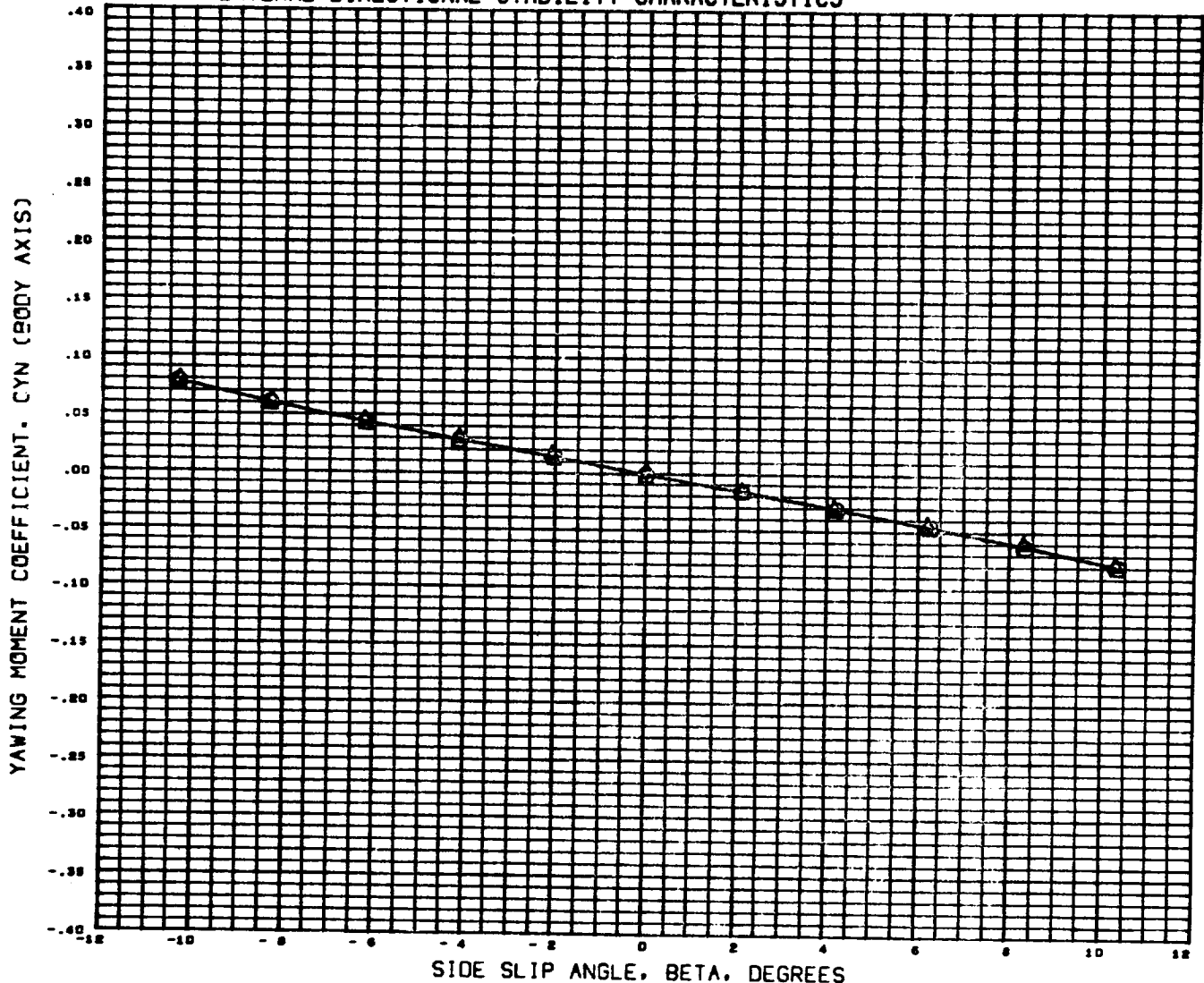


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-MSFC AR11381-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.4221 98.1N
(E3404G)	N492-MSFC AR11381-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3600 1N
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	1.000	0.000	BREF 4.3600 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 1N
						ZNRP 0.0000 1N
						SCALE 0.0021

MACH 0.99

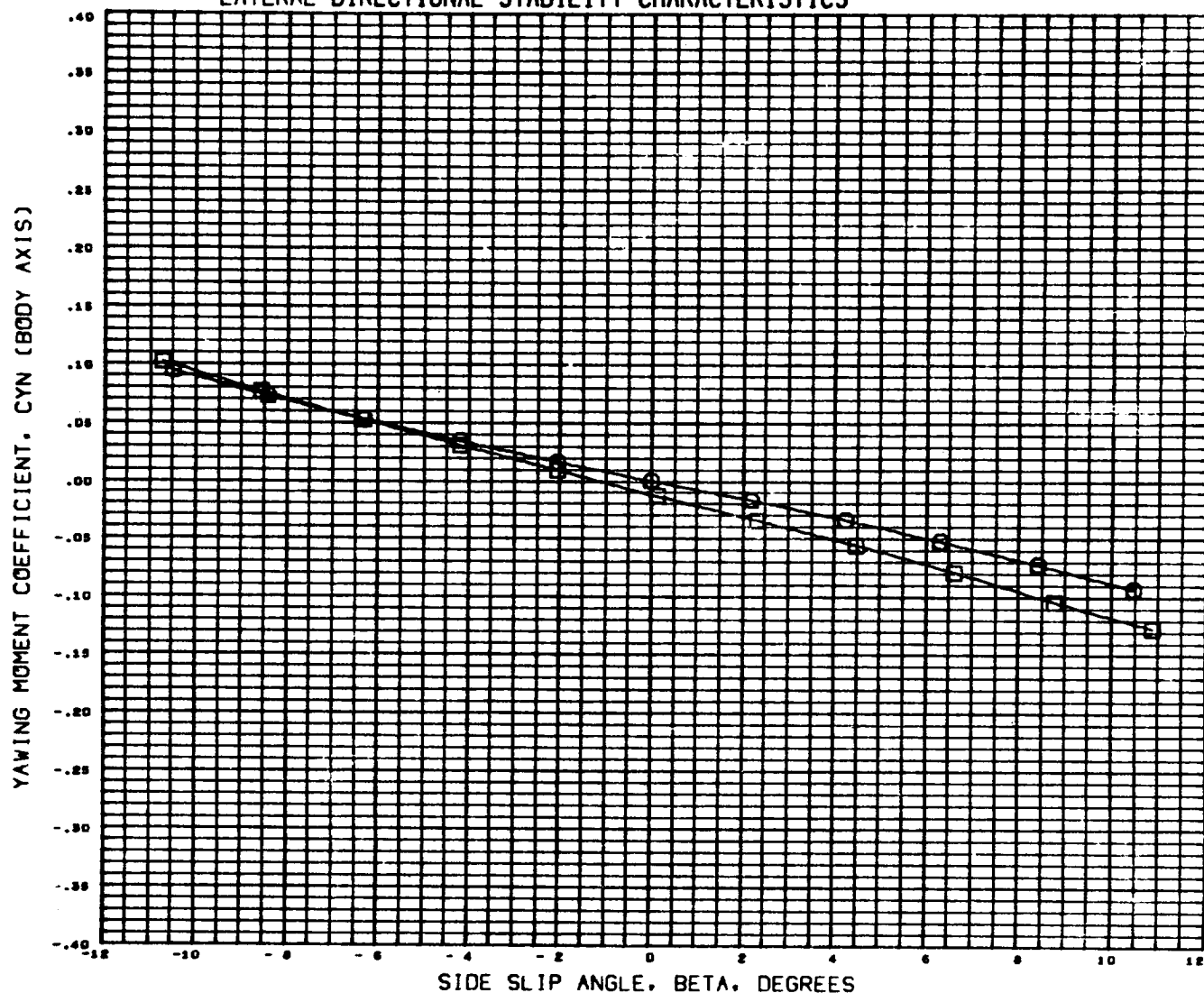
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-MSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 88. IN.
(E3404G)	N492-MSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.198

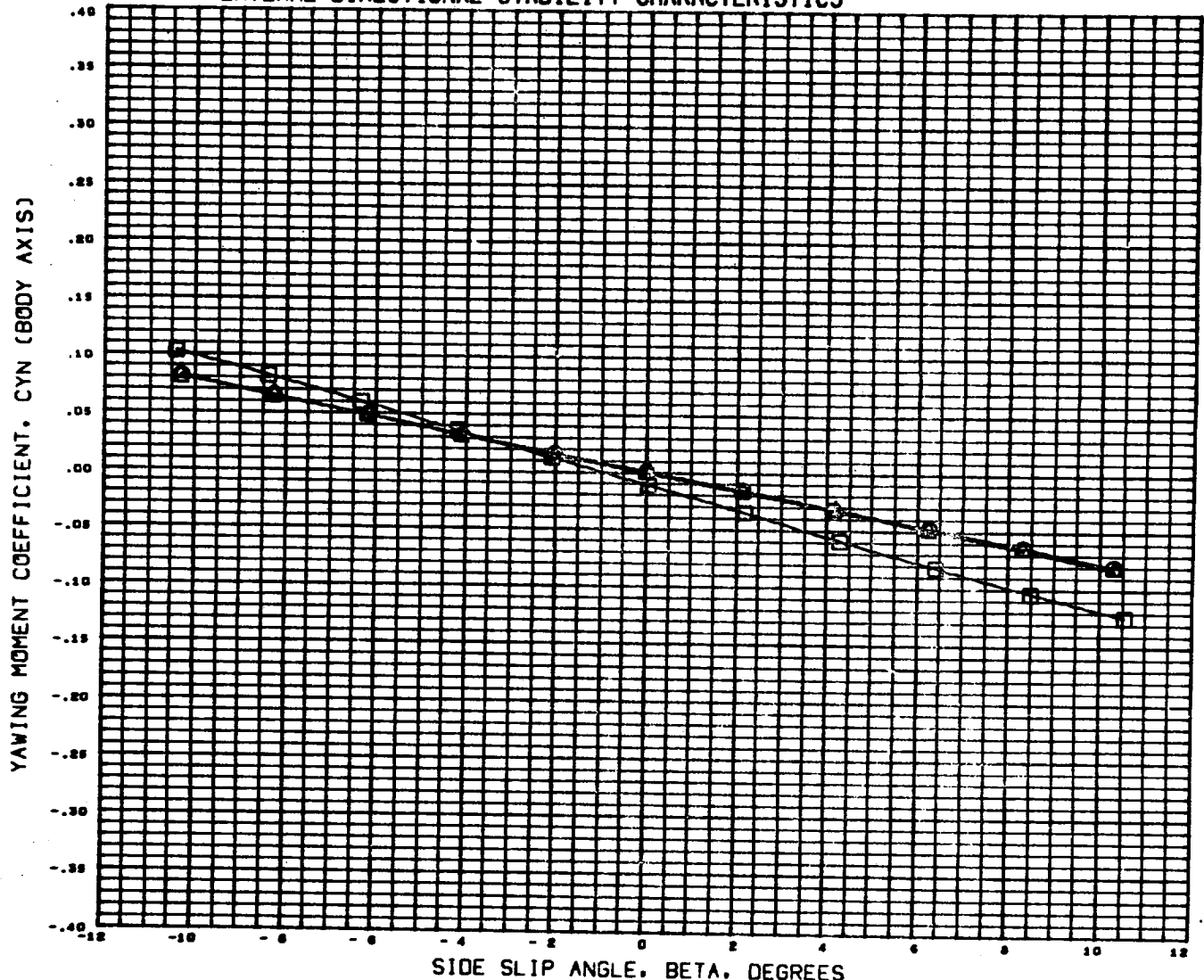
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11961-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-MSFC AR11961-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	YMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.955

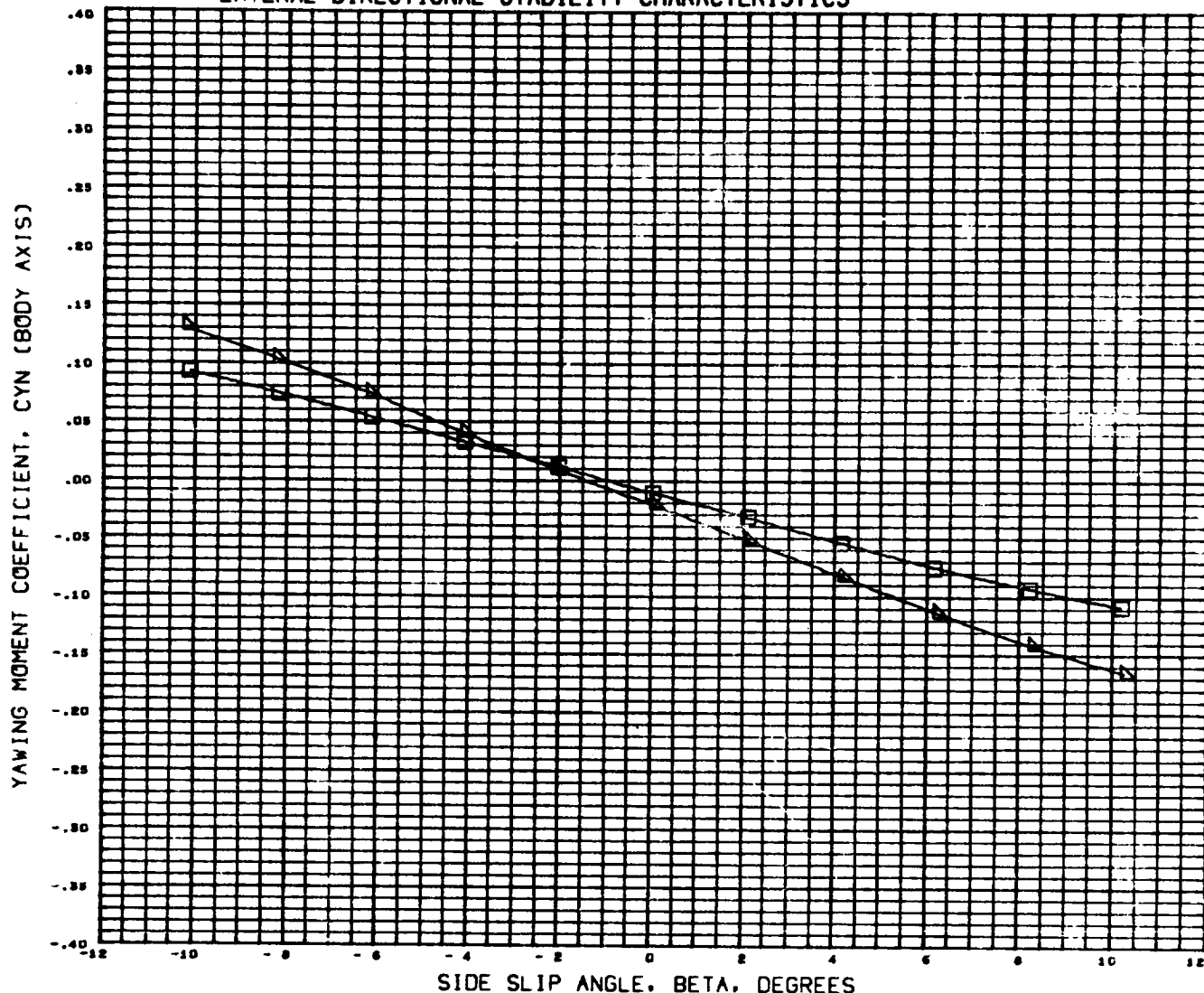
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11981-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF 4.6235 30.IN.
(E3404G)	M492-MSFC AR11981-1 MODEL BZW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-MSFC AR11981-1 MODEL BZW6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 30.1N
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3060 1N.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 1N.
(E3404I)	M492-M5FC AR11501-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	YMRF	2.4000 1N.
(E3404J)	M492-M5FC AR11501-1 MODEL 82W6C12	51.000	0.000	0.000	0.000	YMRF	0.0000 1N.
						ZMRF	0.0000 1N.
						SCALE	0.0025

MACH 4.953

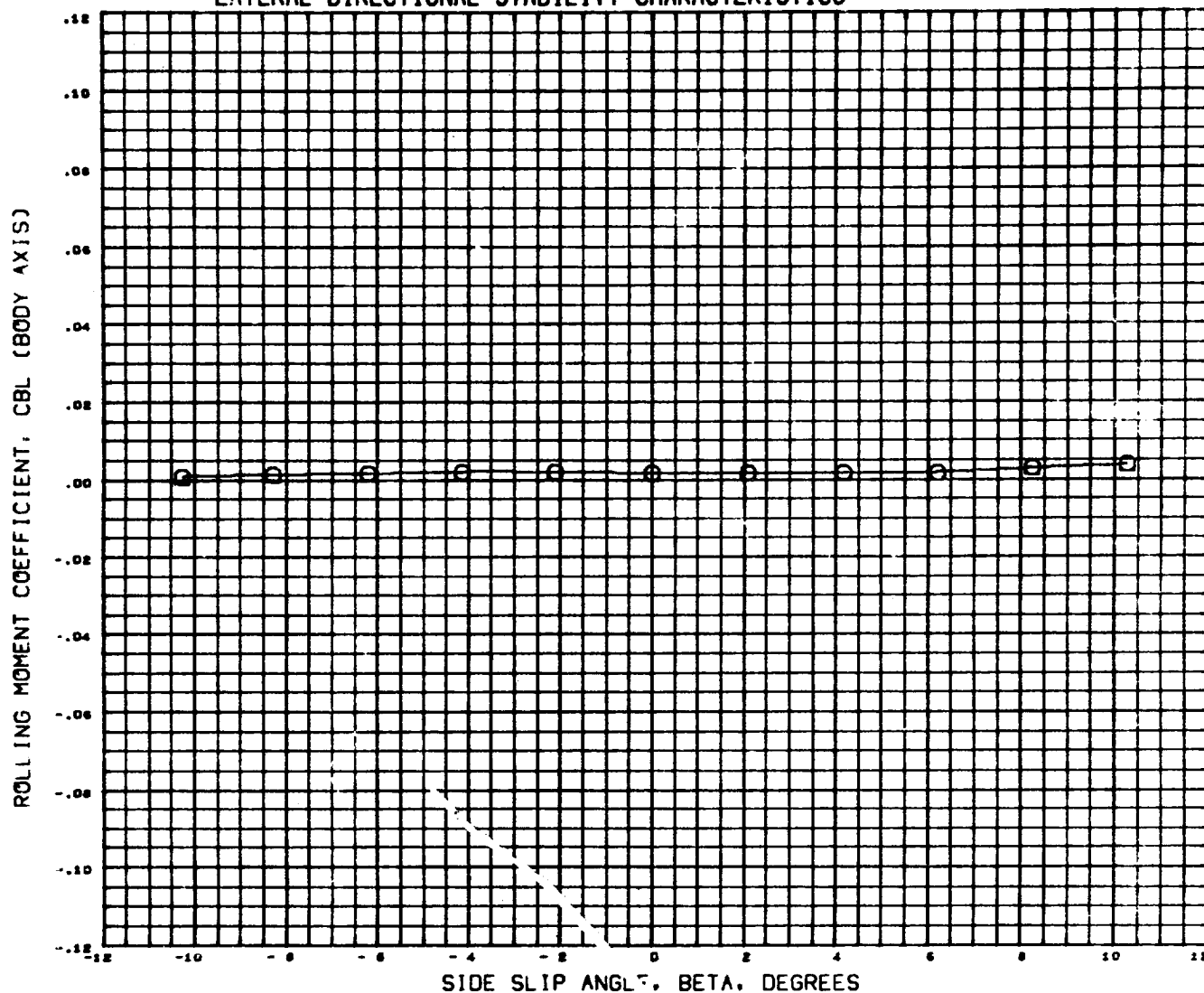
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-MSFC AR1190I-1 MODEL BW6C12	0.000	0.000	0.000	0.000	SREF 4.6225 80.IN.
(E3404G)	N492-MSFC AR1190I-1 MODEL BW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	N492-MSFC AR1190I-1 MODEL BW6C12	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.600

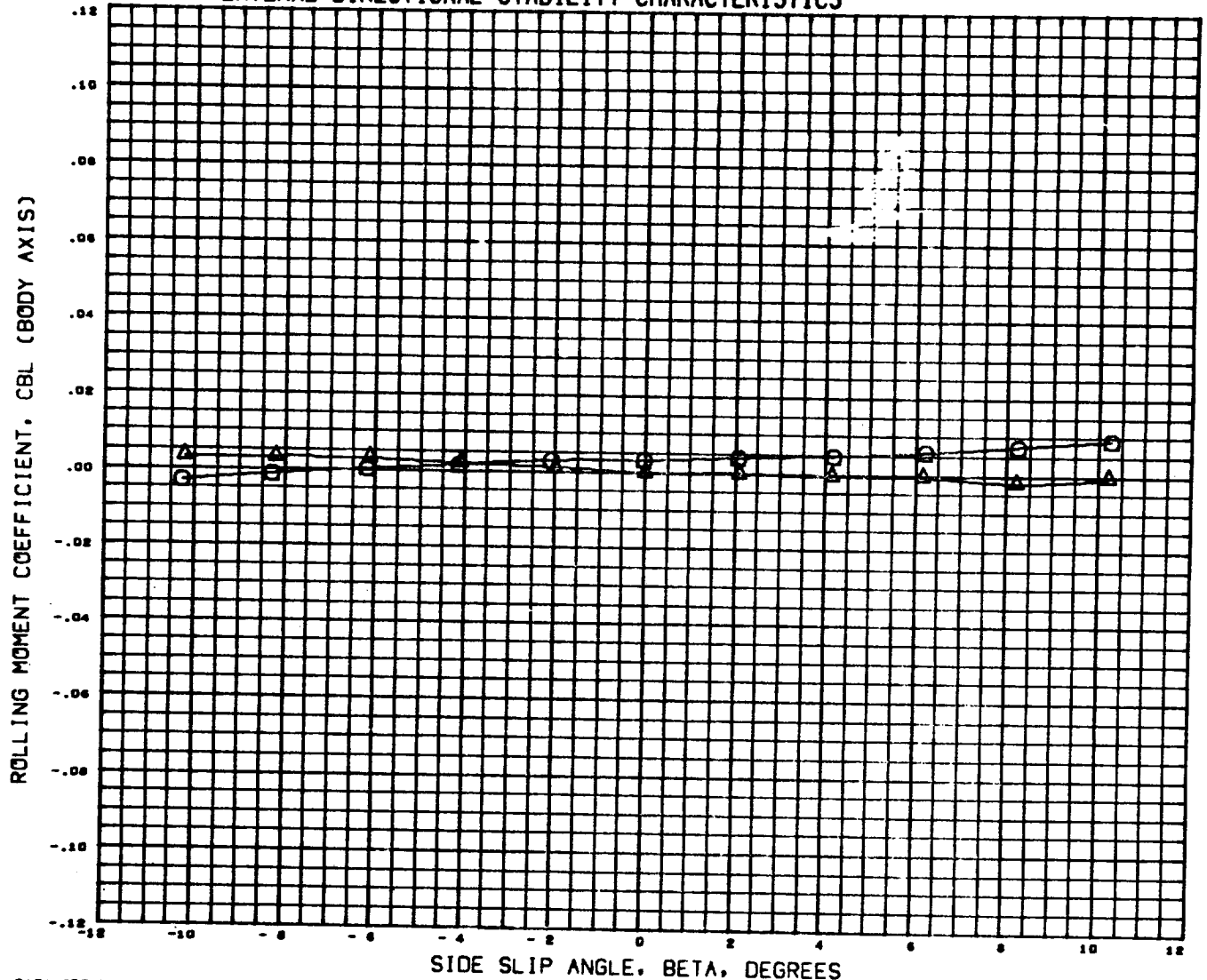
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	A. MACH	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11961-1 MODEL B2W5C12	0.00	0.000	0.000	0.000	SREF 4.6275 30-IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.50	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.50	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.00	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.00	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.001

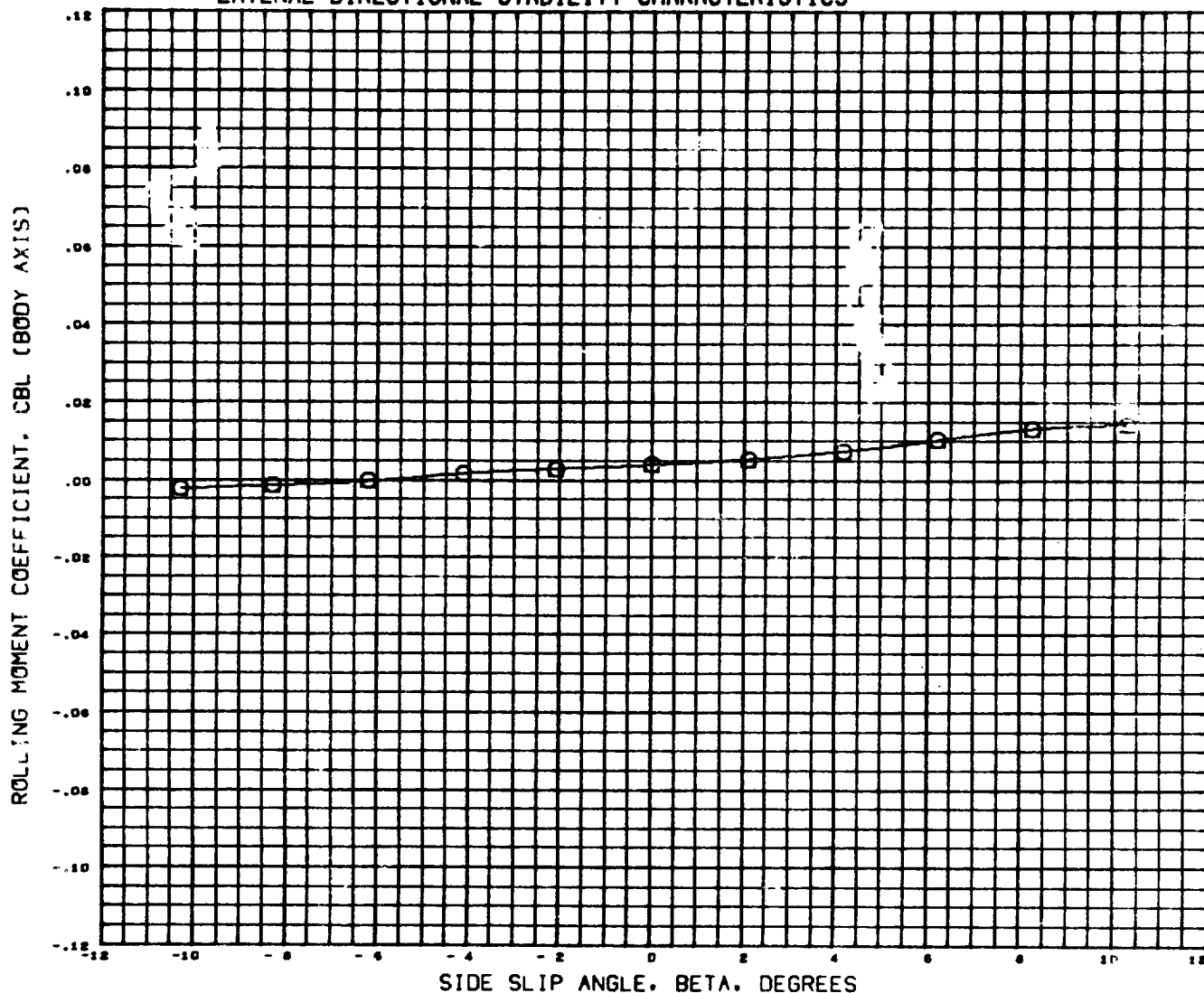
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR1981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3404G)	M492-MSFC AR1981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.894

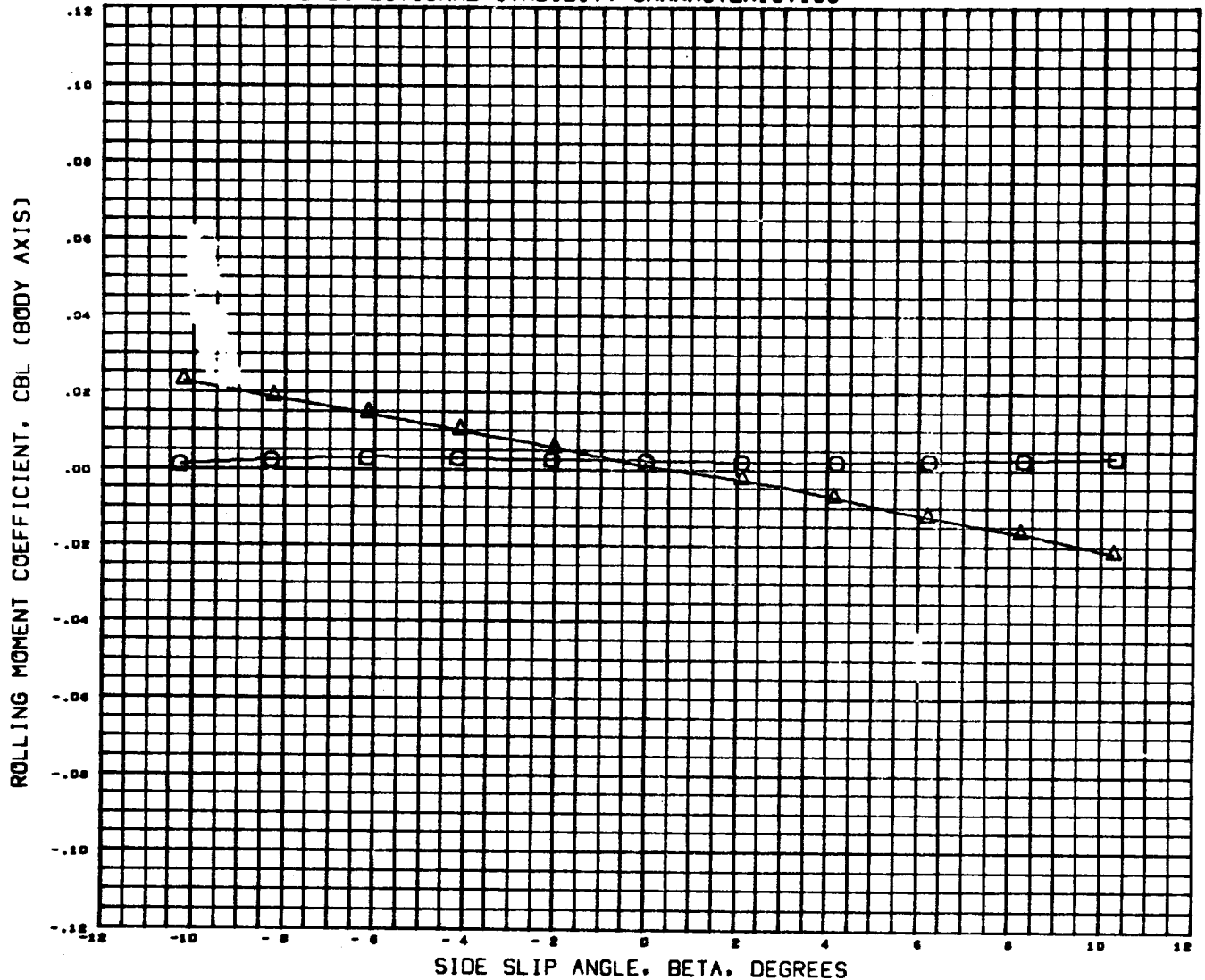
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-HSFC AR1581-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6275 sq.in.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 in.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	21.000	0.000	0.000	0.000	XMRP 2.4000 in.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 0.947

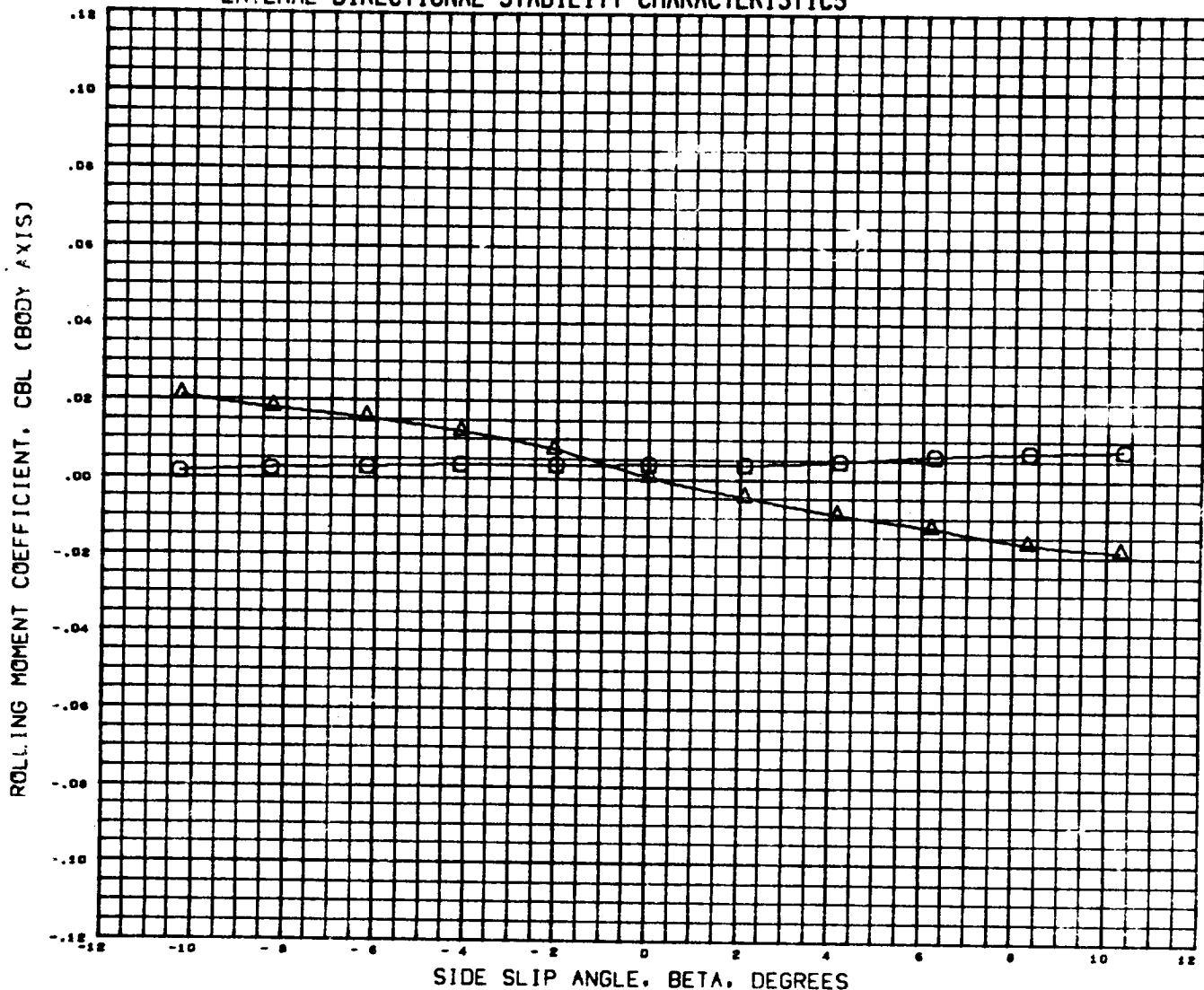
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-MSFC AR11961-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF 4.6225 36. IN.
(E3404G)	N492-MSFC AR11961-1 MODEL BZW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YNRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.997

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

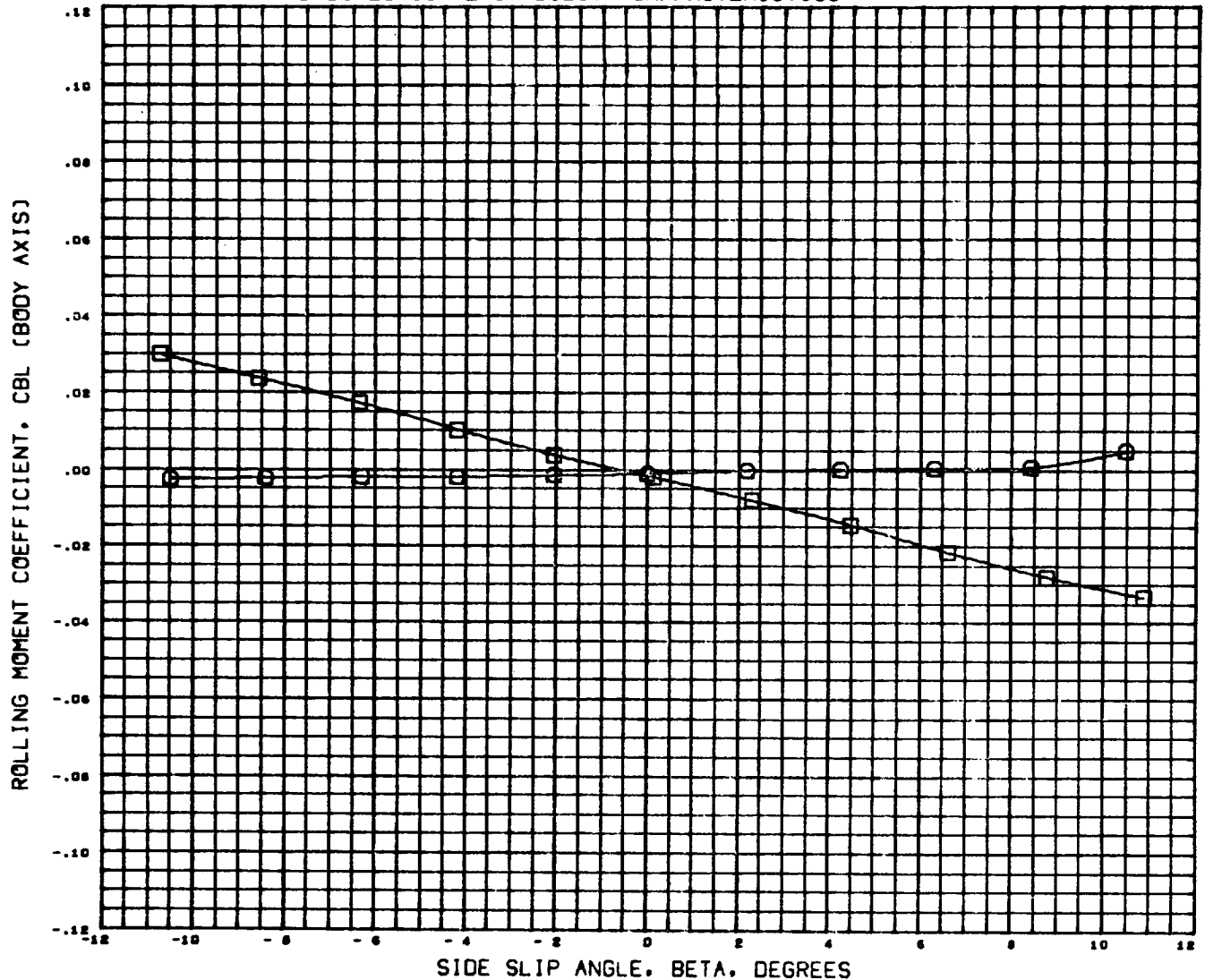


DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E34047)	M492-MSFC AR19HI-1 MODEL B2W8C12
(E34046)	M492-MSFC AR19CI-1 MODEL B2W8C12
(F3404N)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E34047)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E34046)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN.
10.500	0.000	0.000	0.000	LREF 4.3000 IN.
15.500	0.000	0.000	0.000	SREF 4.3000 IN.
31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
51.000	0.000	0.000	0.000	YMRP 2.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 1.198

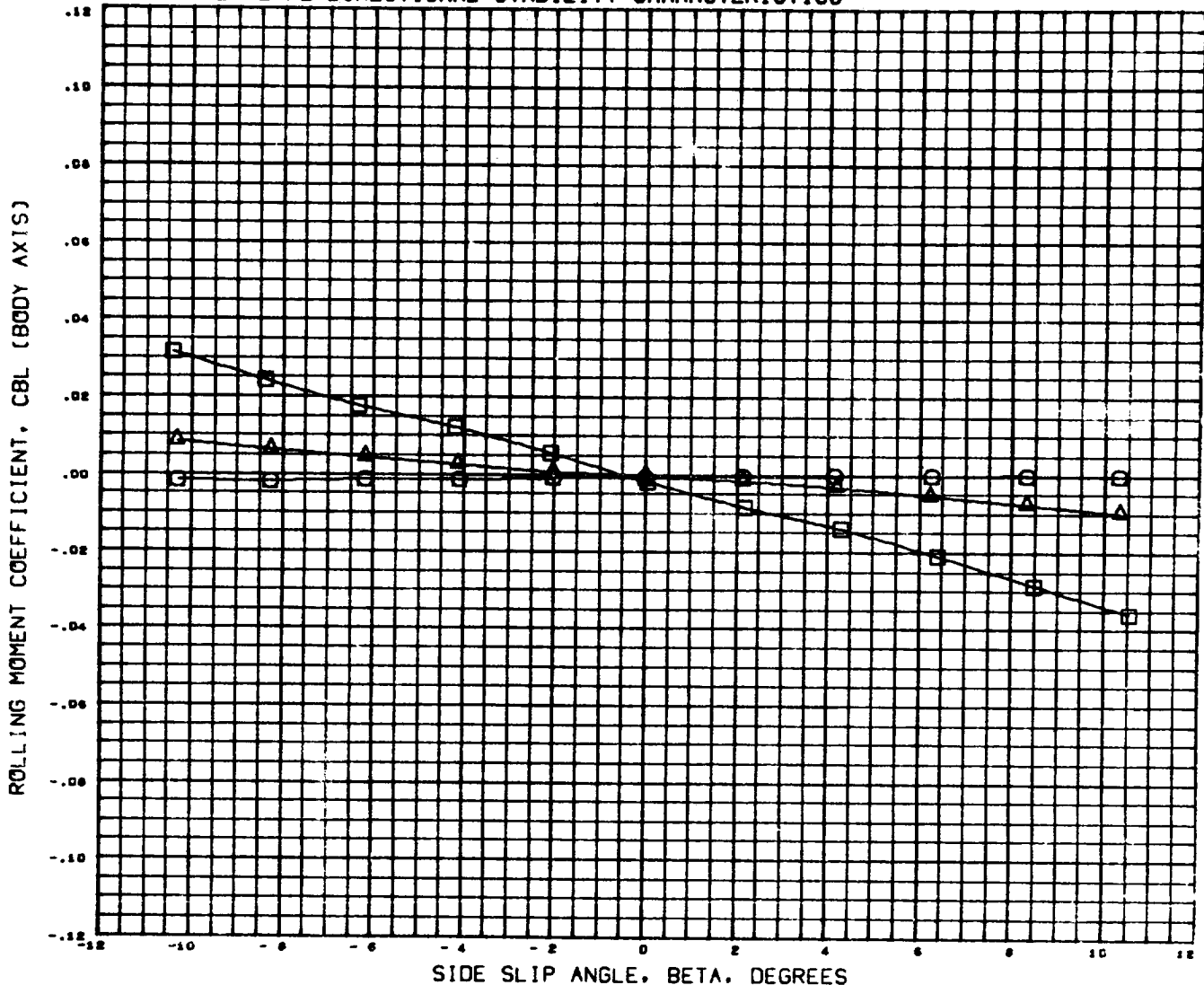
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404P)	M492-MSFC AR11991-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF 4.6285 36 IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-MSFC AR11991-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0085

MACH 1.955

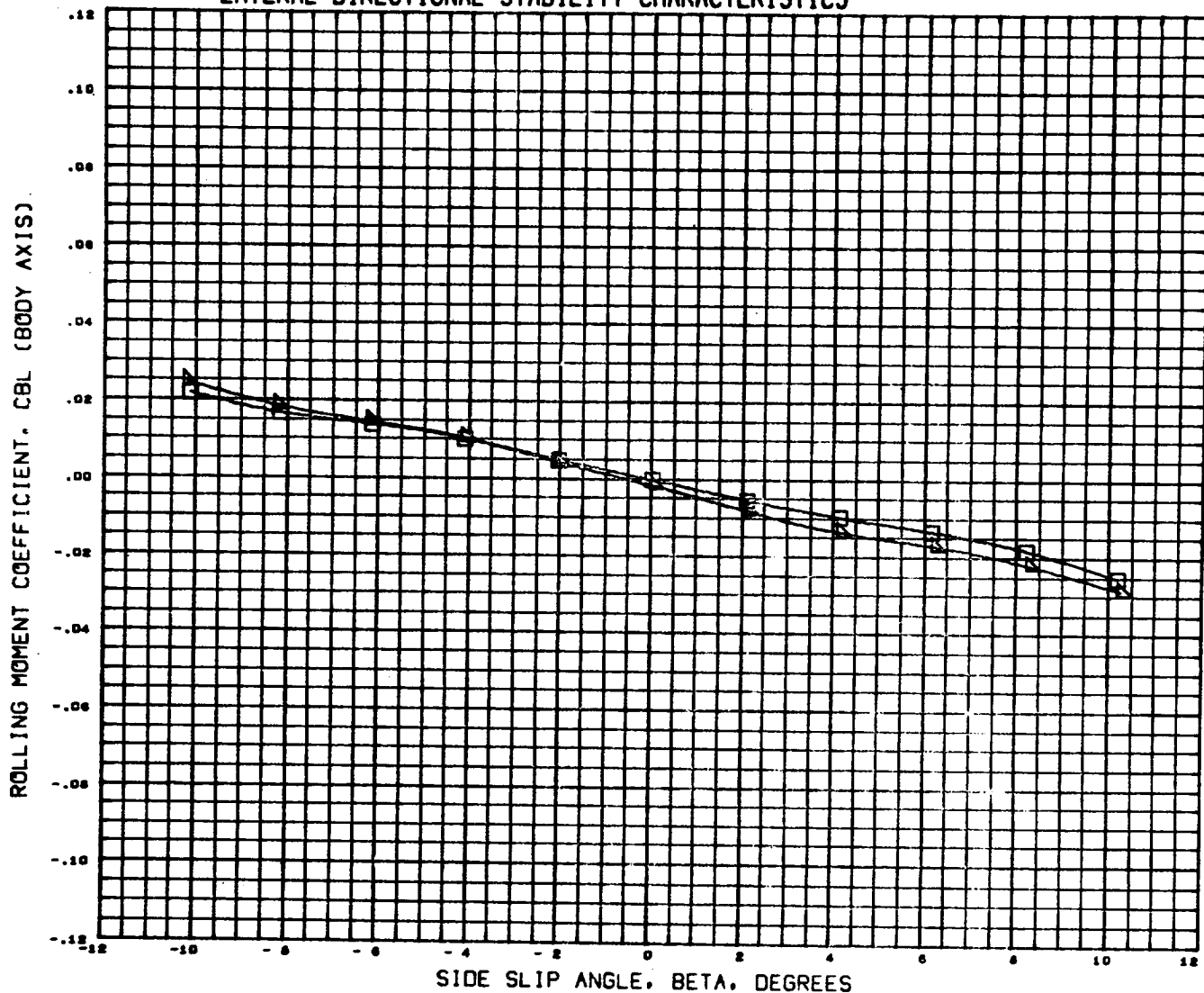
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11991-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6E+5 80.1N
(E3404G)	M492-MSFC AR11991-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-MSFC AR11991-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YHRP 0.0030 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.400

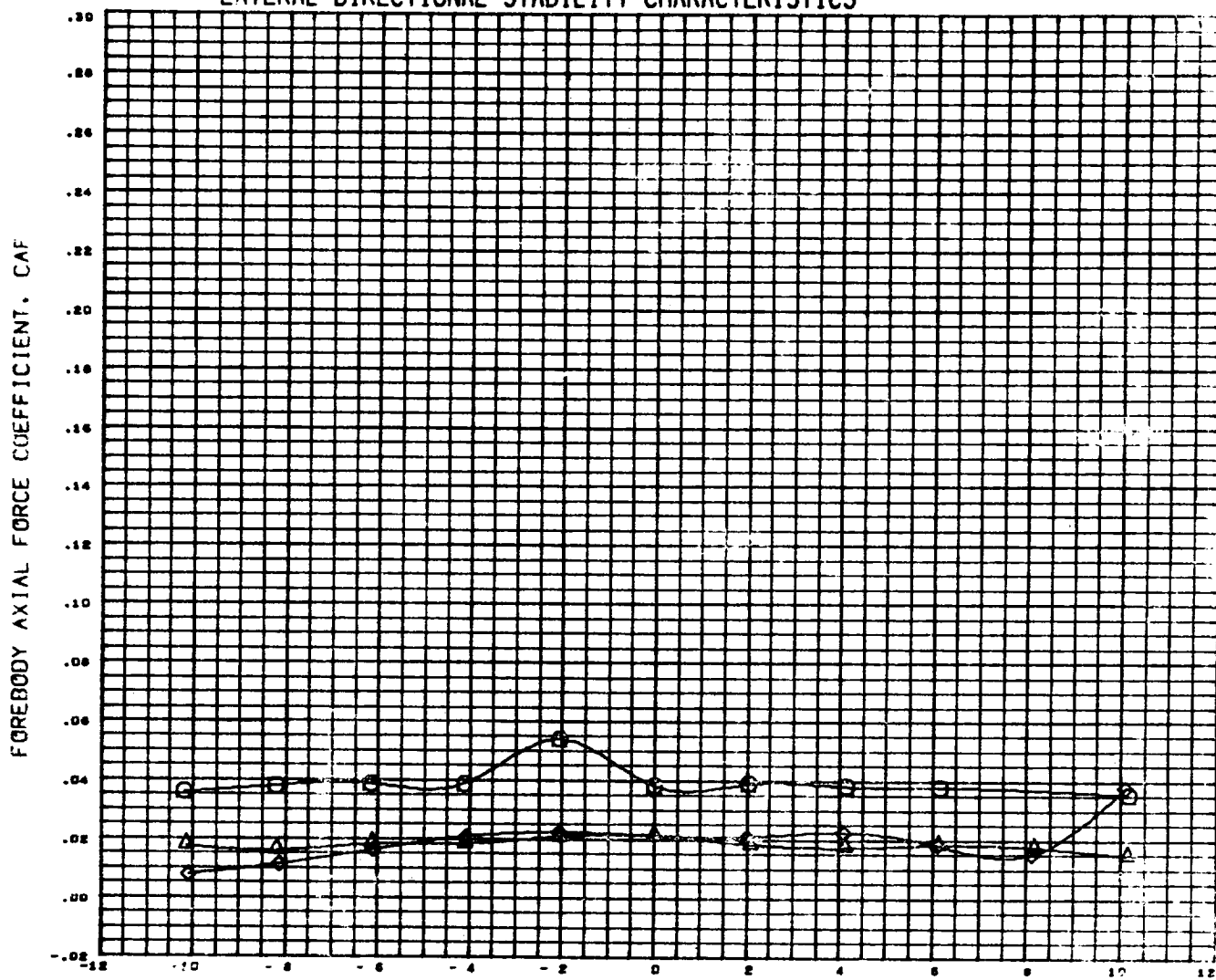
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6525 30.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	N492-MSFC AR11981-1 MODEL 82W5C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	N492-MSFC AR11981-1 MODEL 82W5C12	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.939

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

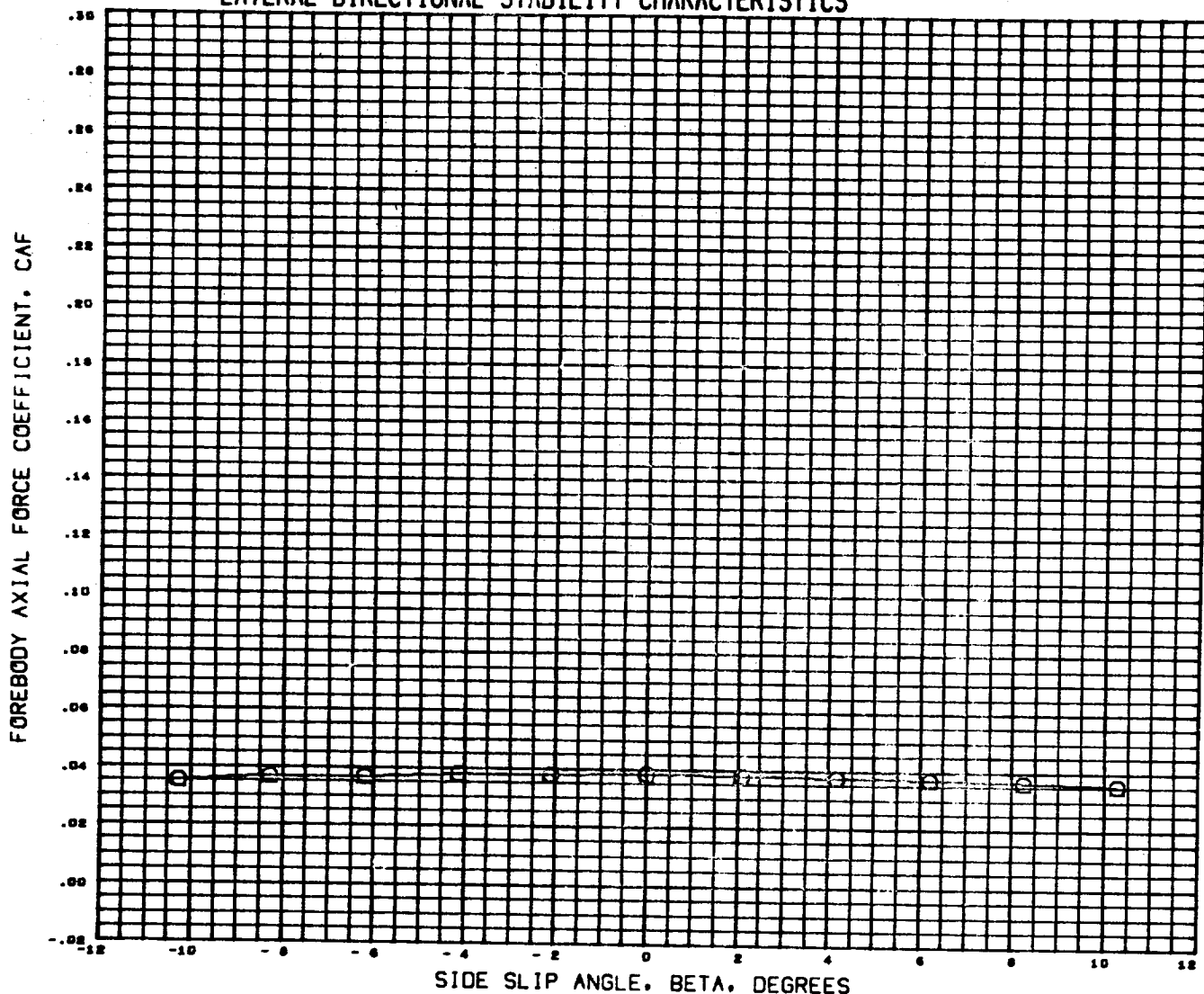


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REF. ENCL	INCH	CM
(E34047)	○	M492-MSFC AR11701-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF	4.6225	59.11
(E34048)	○	M492-MSFC AR11701-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF	4.5000	59.11
(E34049)	○	M492-MSFC AR11701-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	BREF	4.3000	59.11
(E34050)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	0.0000	59.11
(E34051)	◇	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	ZMRP	0.0000	59.11
							SCALE	0.0025	

WASH D. 500

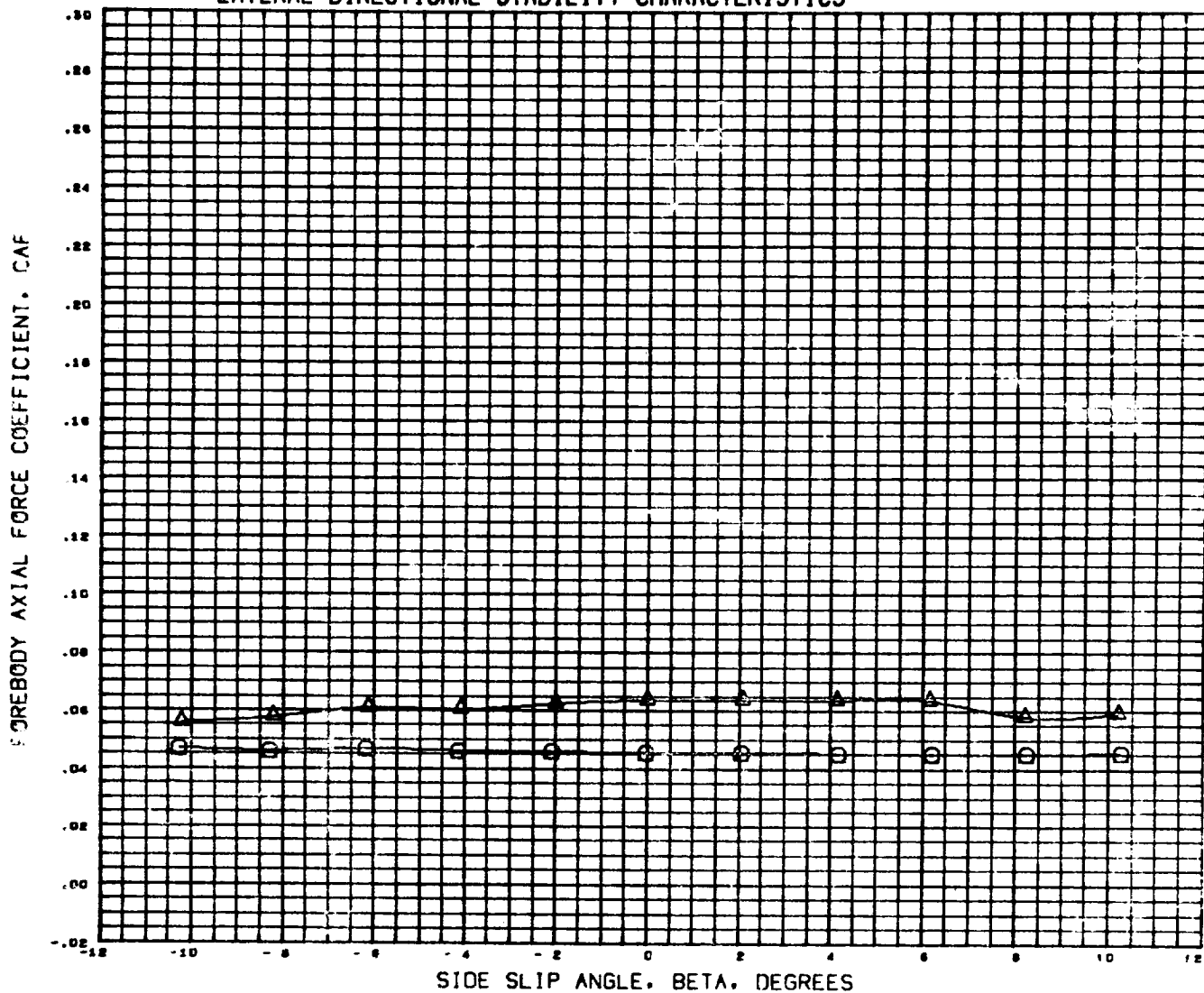
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	N492-NSFC AR11981-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF	4.4225 30.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRF	0.0000 IN.
						ZMRF	0.0000 IN.
						SCALE	0.0025

MACH 0.001

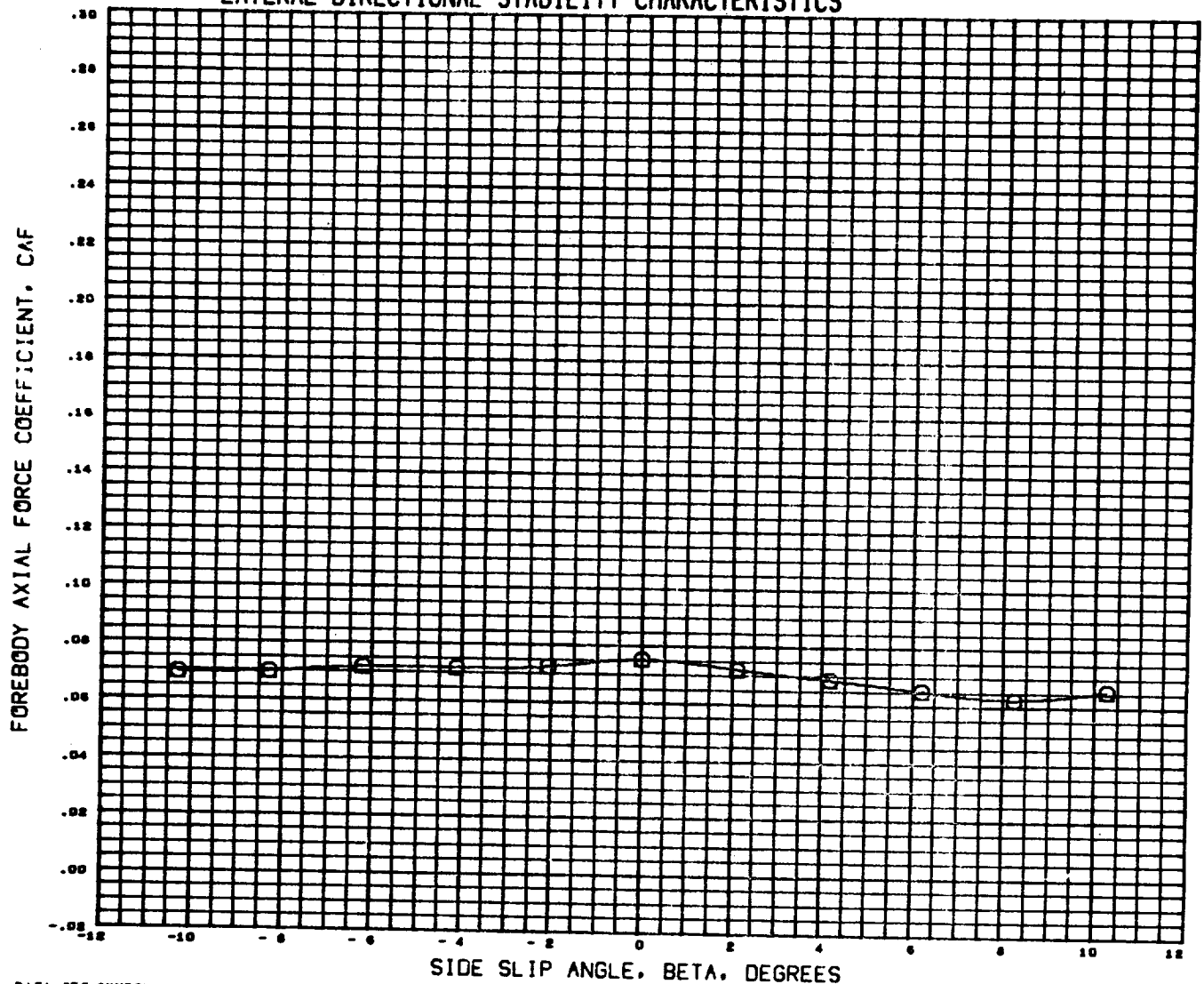
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR119AI-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 1.5275 59.1N.
(E3404G)	M492-MSFC AR119AI-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 5.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.894

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11991-1 MODEL B2WSC12	0.000	0.000	0.000	0.000	SREF 4.6223 80.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.947

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

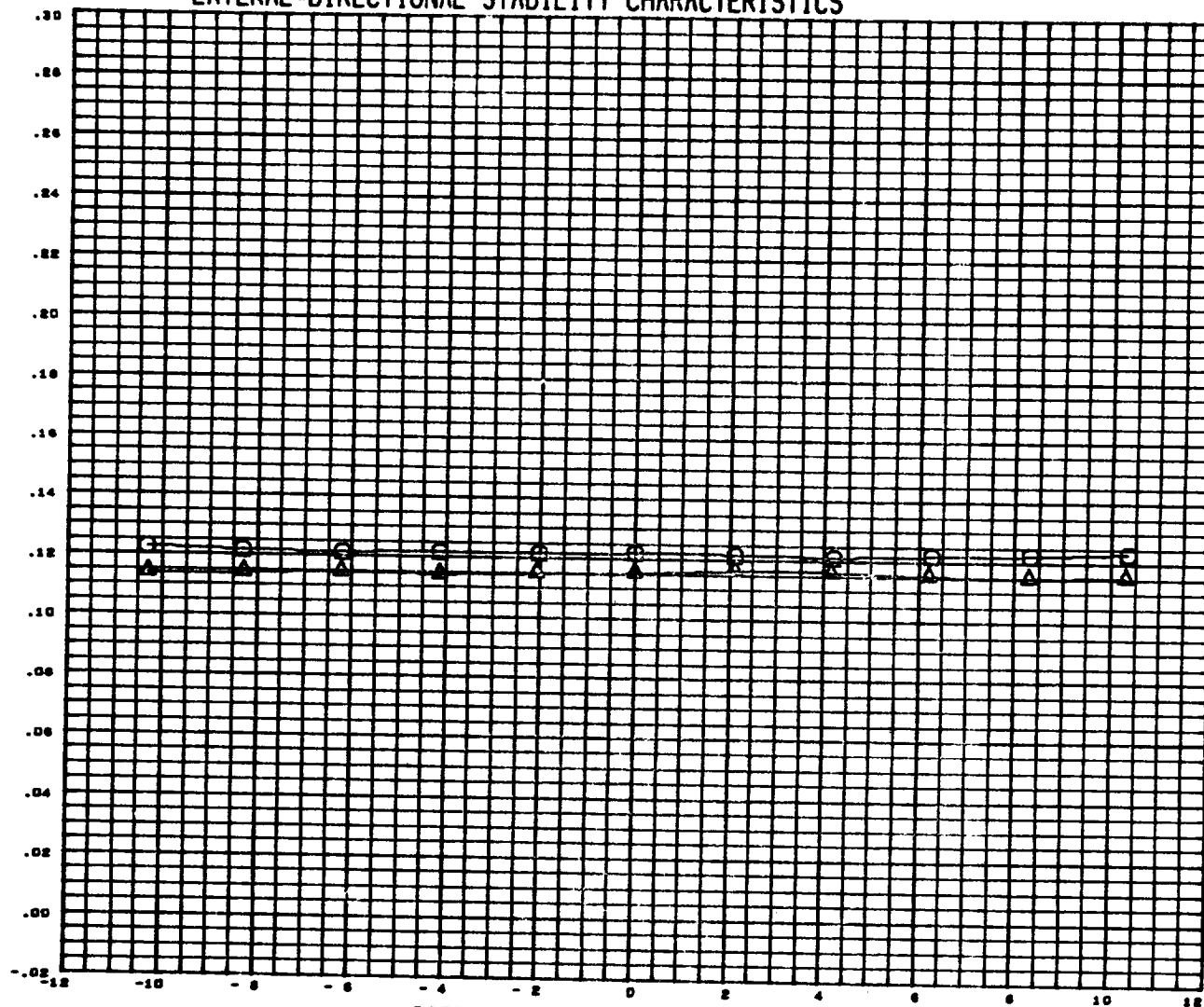


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11981-1 MODEL B2M6C12	0.000	0.000	0.000	0.000	SREF 4.6221 50.1°
(E3404G)	M492-MSFC AR11981-1 MODEL B2M6C12	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(E3404H)	M492-MSFC AR11981-1 MODEL B2M6C12	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0021

MACH 0.99

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

FOREBODY AXIAL FORCE COEFFICIENT, CAF



SIDE SLIP ANGLE, BETA, DEGREES

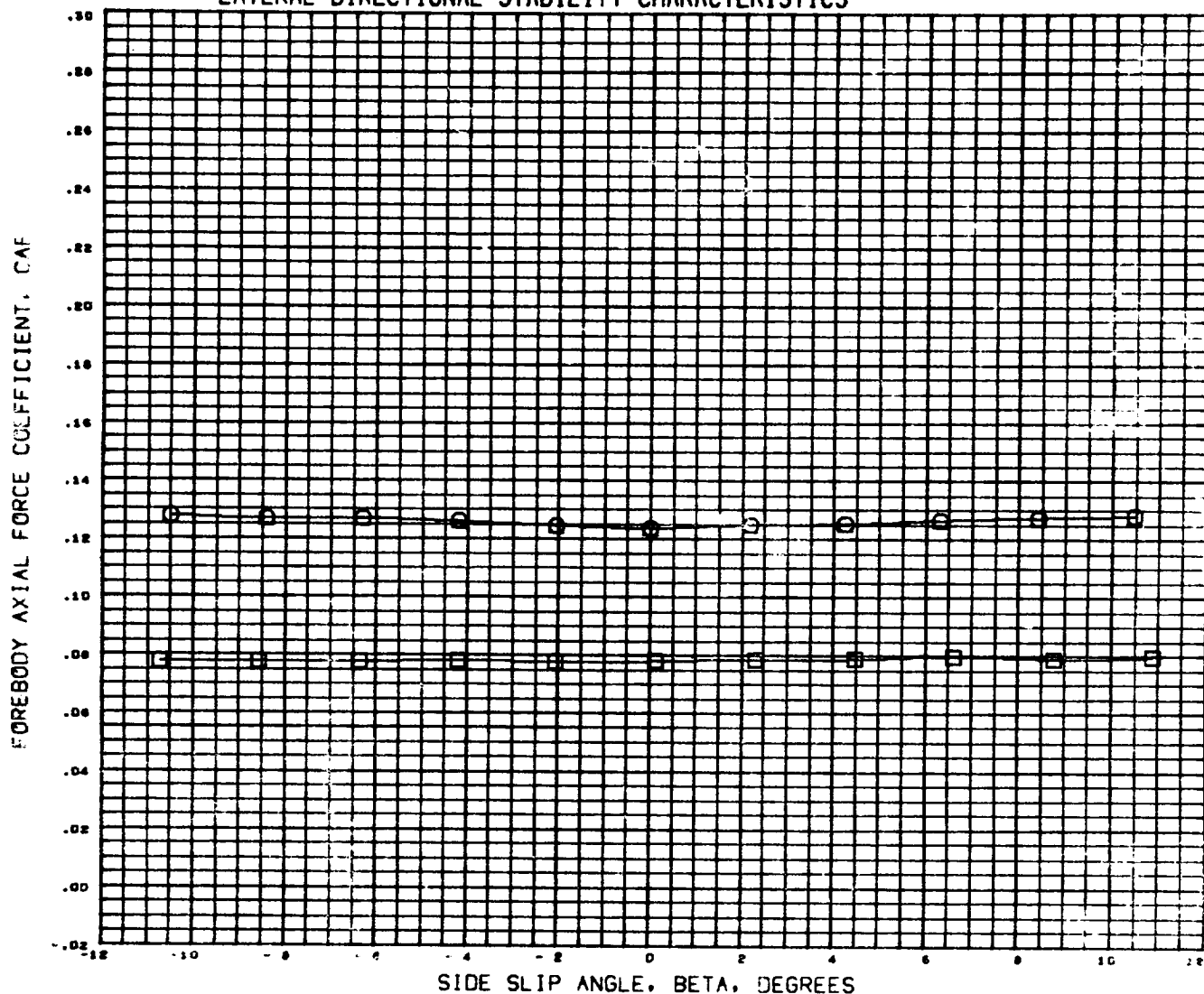
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3404F) M492-HSFC AR1981-1 MODEL B2WMC12
 (E3404G) M492-HSFC AR1981-1 MODEL B2WMC12
 (F3404H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3404I) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3404J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6285 88. IN.
10.500	0.000	0.000	0.000	LREF 4.3000 IN.
15.500	0.000	0.000	0.000	BREF 4.3000 IN.
31.000	0.000	0.000	0.000	YMRP 2.4000 IN.
51.000	0.000	0.000	0.000	ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 1.190

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

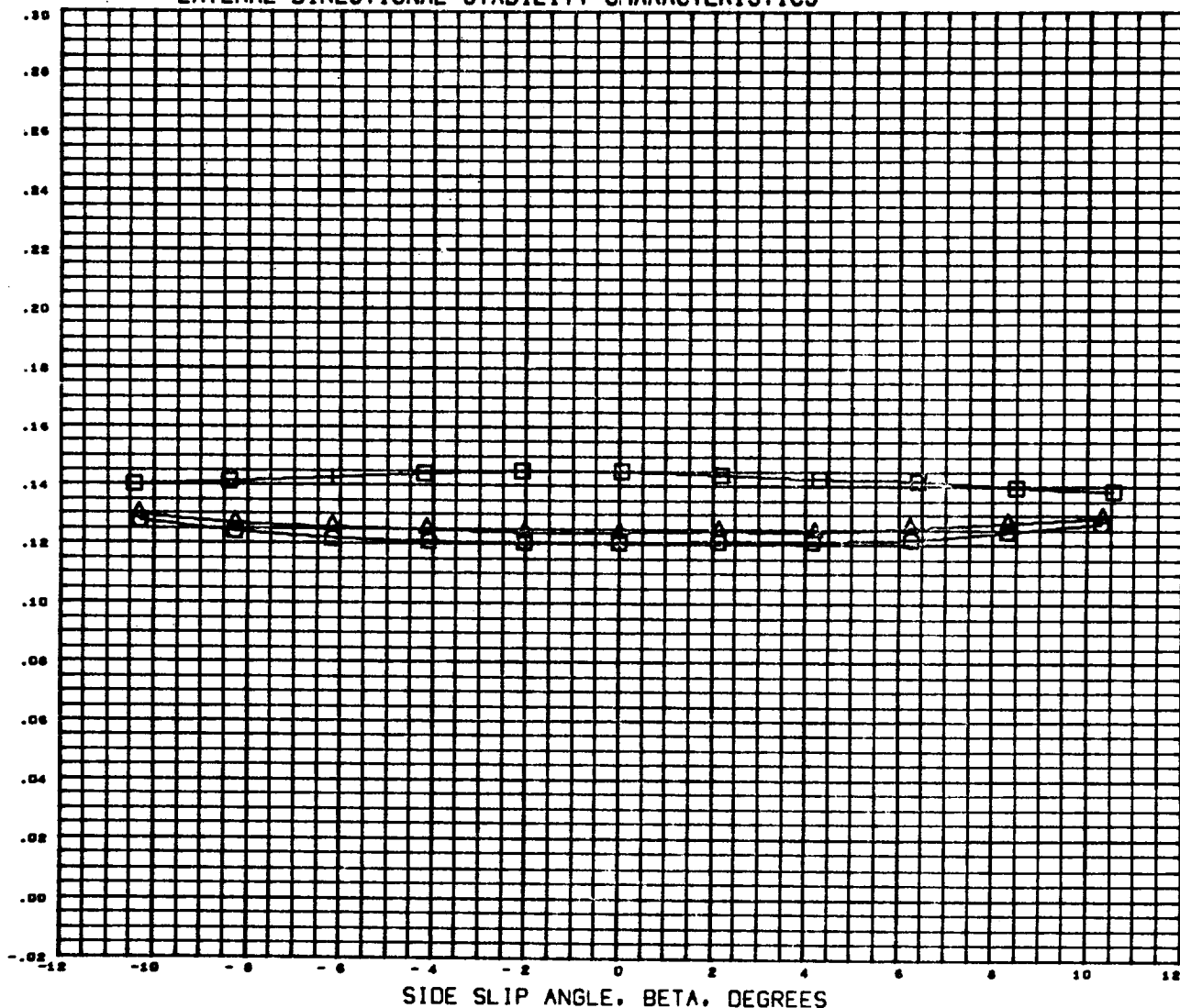
(E3404F) M492-MSFC AR11981-1 MODEL B2W6C12
 (E3404G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3404H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3404I) M492-MSFC AR11981-1 MODEL B2W6C12
 (E3404J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6225 59.1h
10.500	0.000	0.000	0.000	LREF 4.1000 "
15.500	0.000	0.000	0.000	SRF 4.3000 "
31.000	0.000	0.000	0.000	XMRP 2.4000 "
51.000	0.000	0.000	0.000	YMRP 0.0000 "
				ZMRP 0.0000 "
				SCALE 0.0025

MACH 5.955

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

FOREBODY AXIAL FORCE COEFFICIENT, CAF

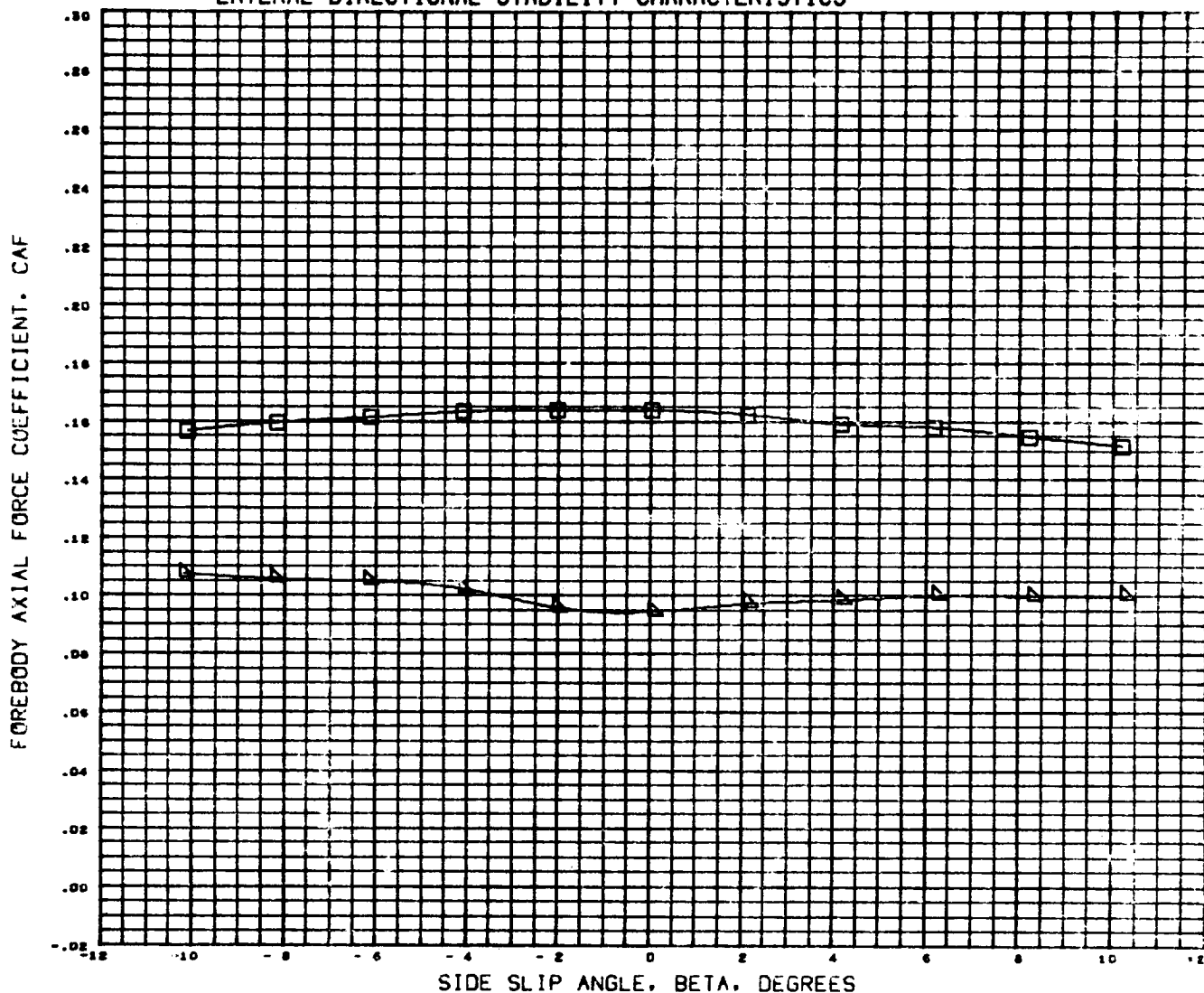


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3406F)	M492-NSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 88.IN.
(E3406G)	M492-NSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3406H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3406I)	M492-NSFC AR11981-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 8.4000 IN.
(E3406J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3404F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3404G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (F3404H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3404I) M422-K8FC AR11501-1 MODEL B2W6C12
 (E3404J) M422-K8FC AR11501-1 MODEL B2W6C12

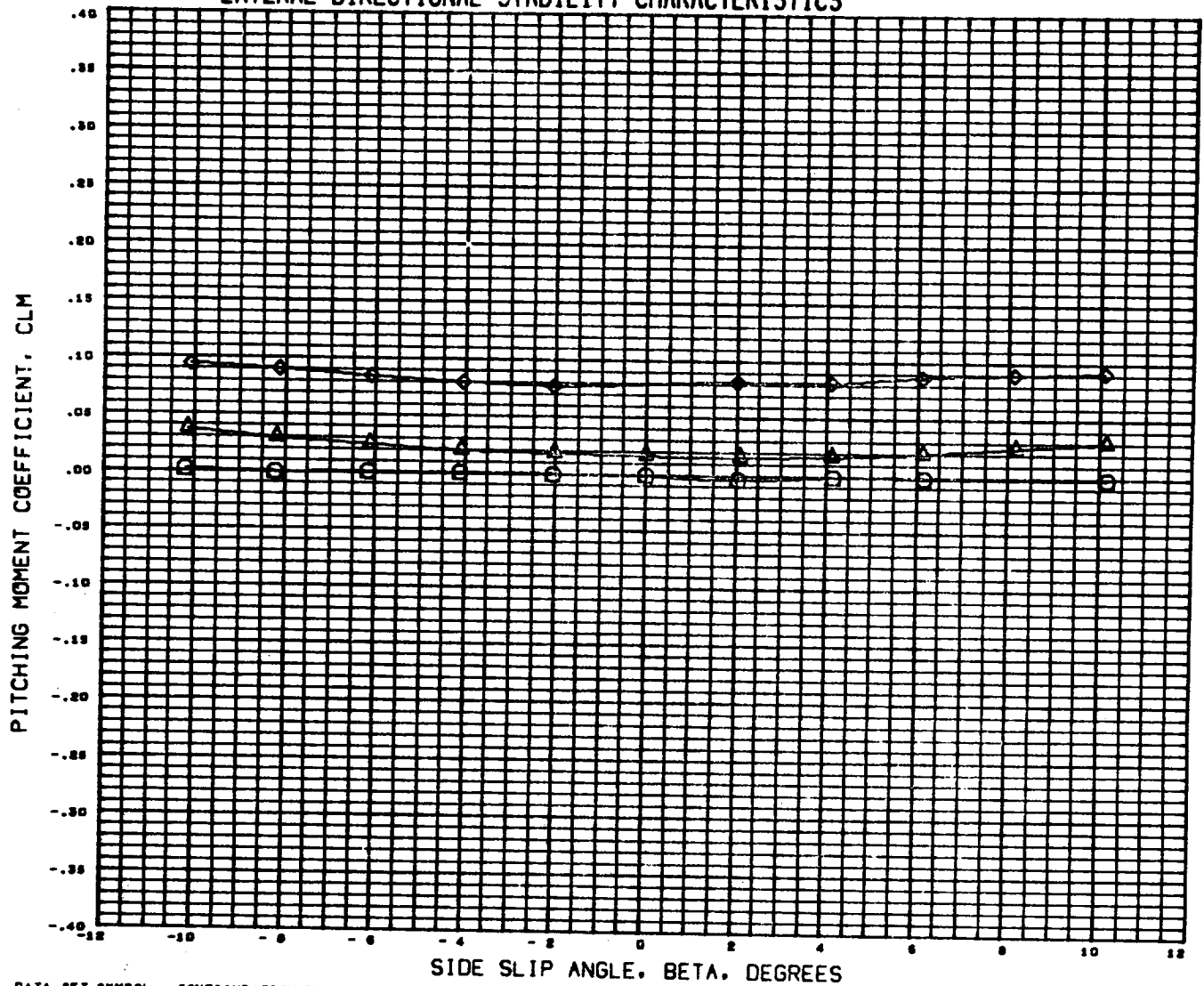
ALPHA	CANARD	ELEVTR	AILRON
0.000	0.000	0.000	0.000
10.500	0.000	0.000	0.000
15.500	0.000	0.000	0.000
31.000	0.000	0.000	0.000
51.000	0.000	0.000	0.000

REFERENCE INFORMATION

SREF	4.6825	50.1%
LREF	4.3000	7.1
BREF	4.3000	10.1
XMRP	2.4000	10.1
YMRP	0.0000	10.1
ZMRP	0.0000	10.1
SCALE	0.0025	

MACH 1.959

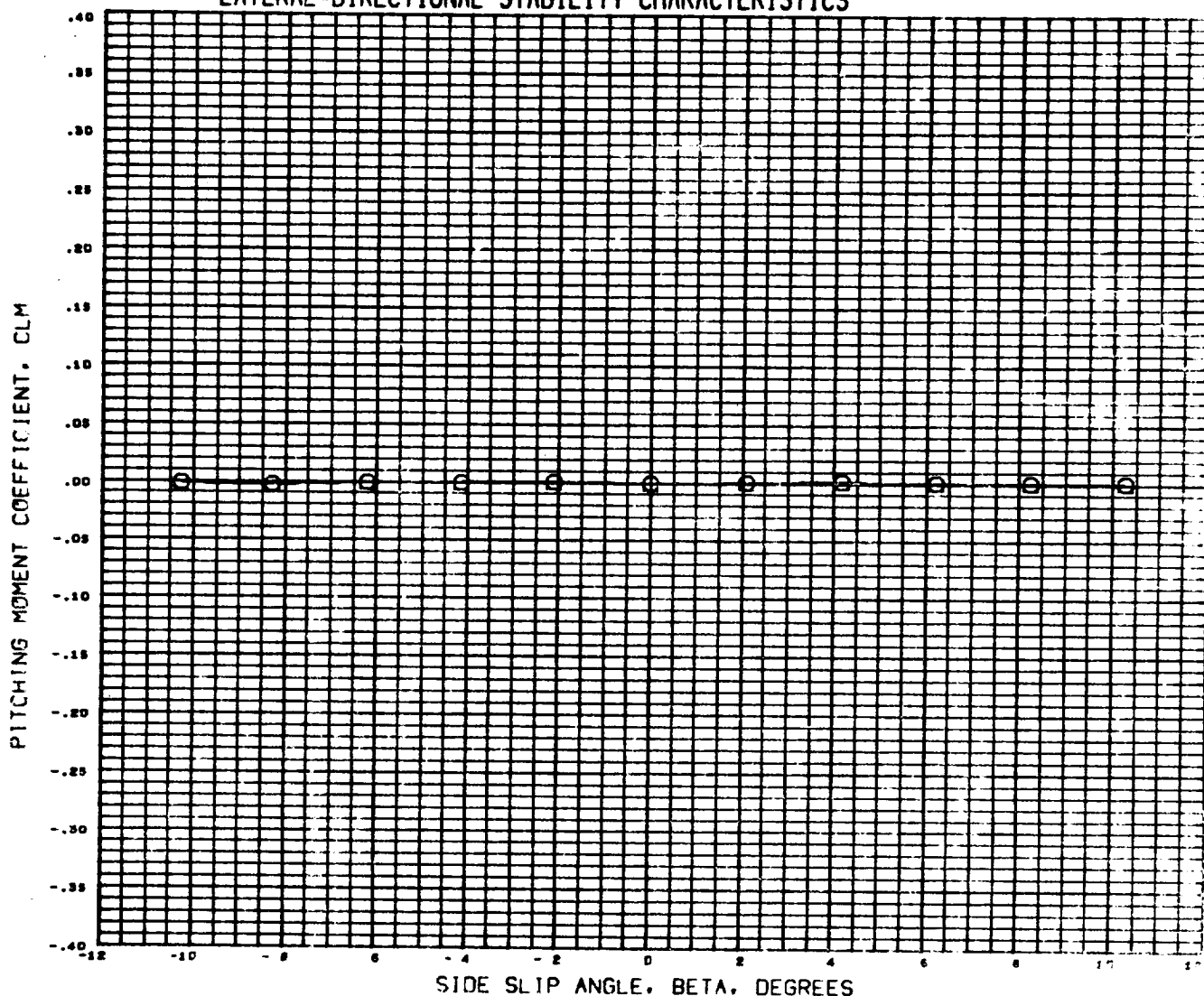
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-NSFC AR11901-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3404G)	M492-NSFC AR11901-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	M492-NSFC AR11901-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.600

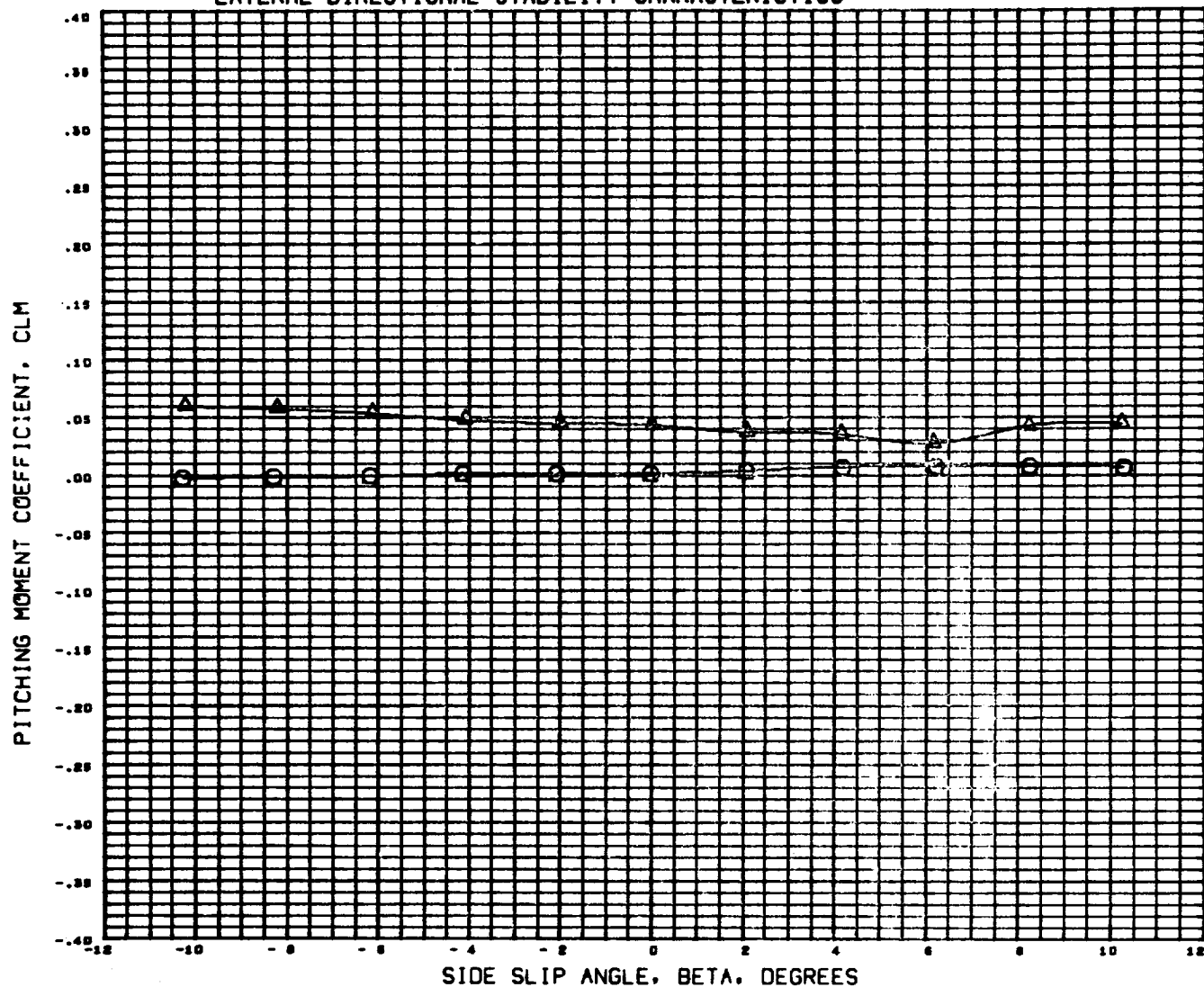
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-M8FC ARS1981-3 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6235 79.1
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LREF 4.3090 24
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3090 24
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 24
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 24
						ZMRP 0.0000 24
						SCALE 0.0025

MACH 0.80

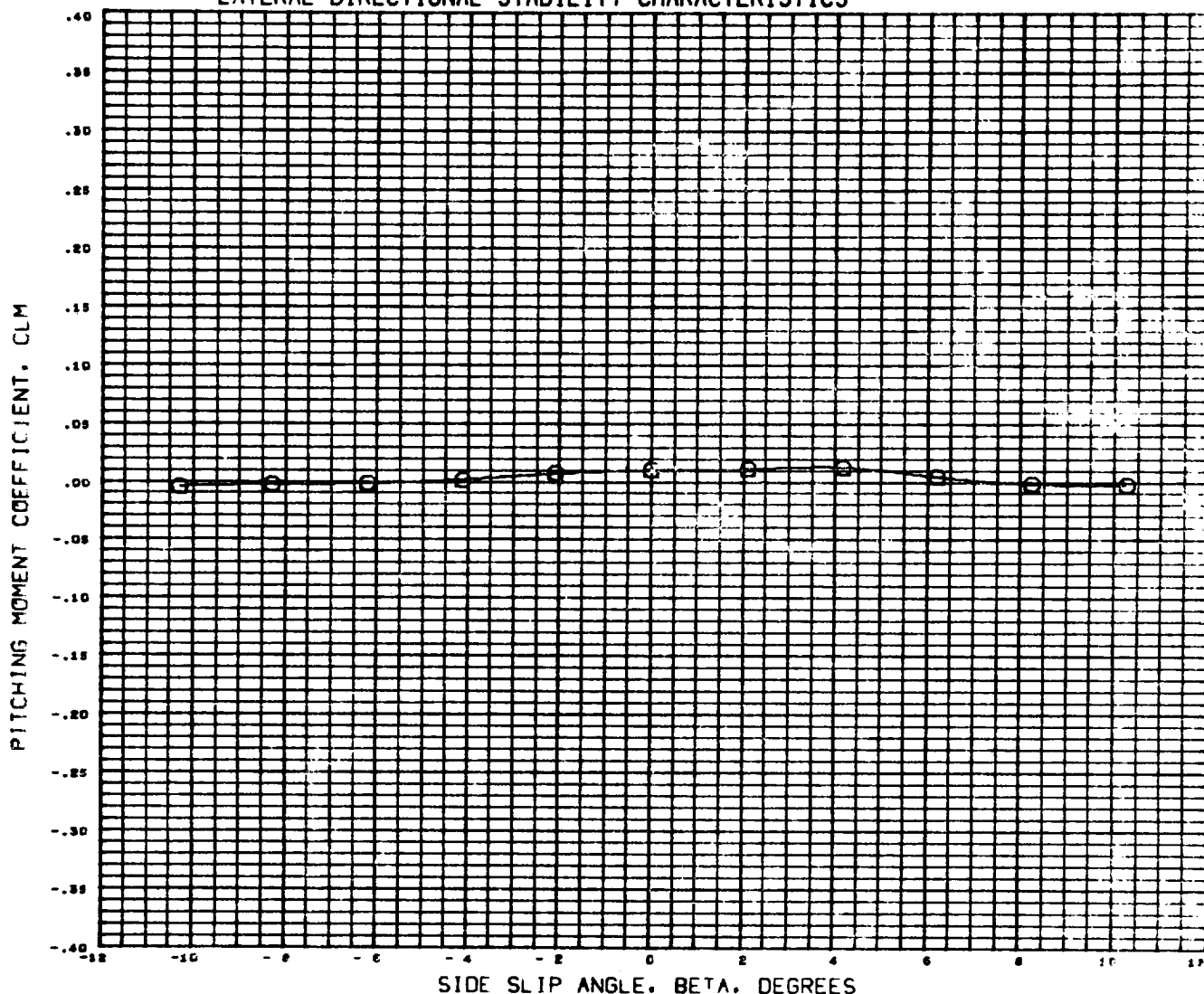
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-M5FC ARI1991-1 MODEL B2W5C12	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E3404G)	M492-M5FC ARI1991-1 MODEL B2W5C12	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 in.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 in.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 0.994

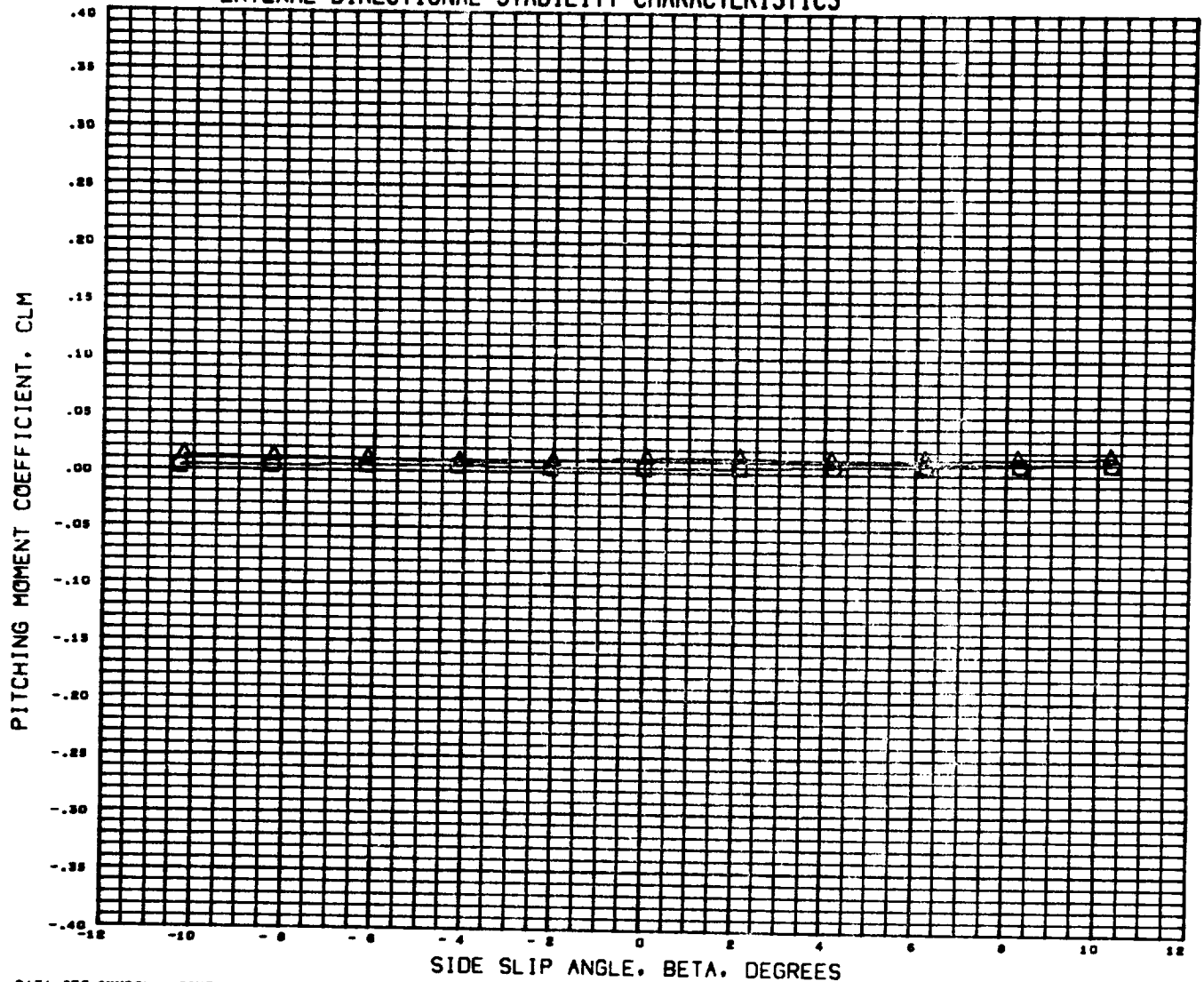
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	M492-HSFC ARI/201-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF	4.6225 50.70
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 70
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 70
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP	2.4000 70
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP	0.6000 70
						ZNRP	0.0000 70
						SCALE	0.0025

MACH 0.94

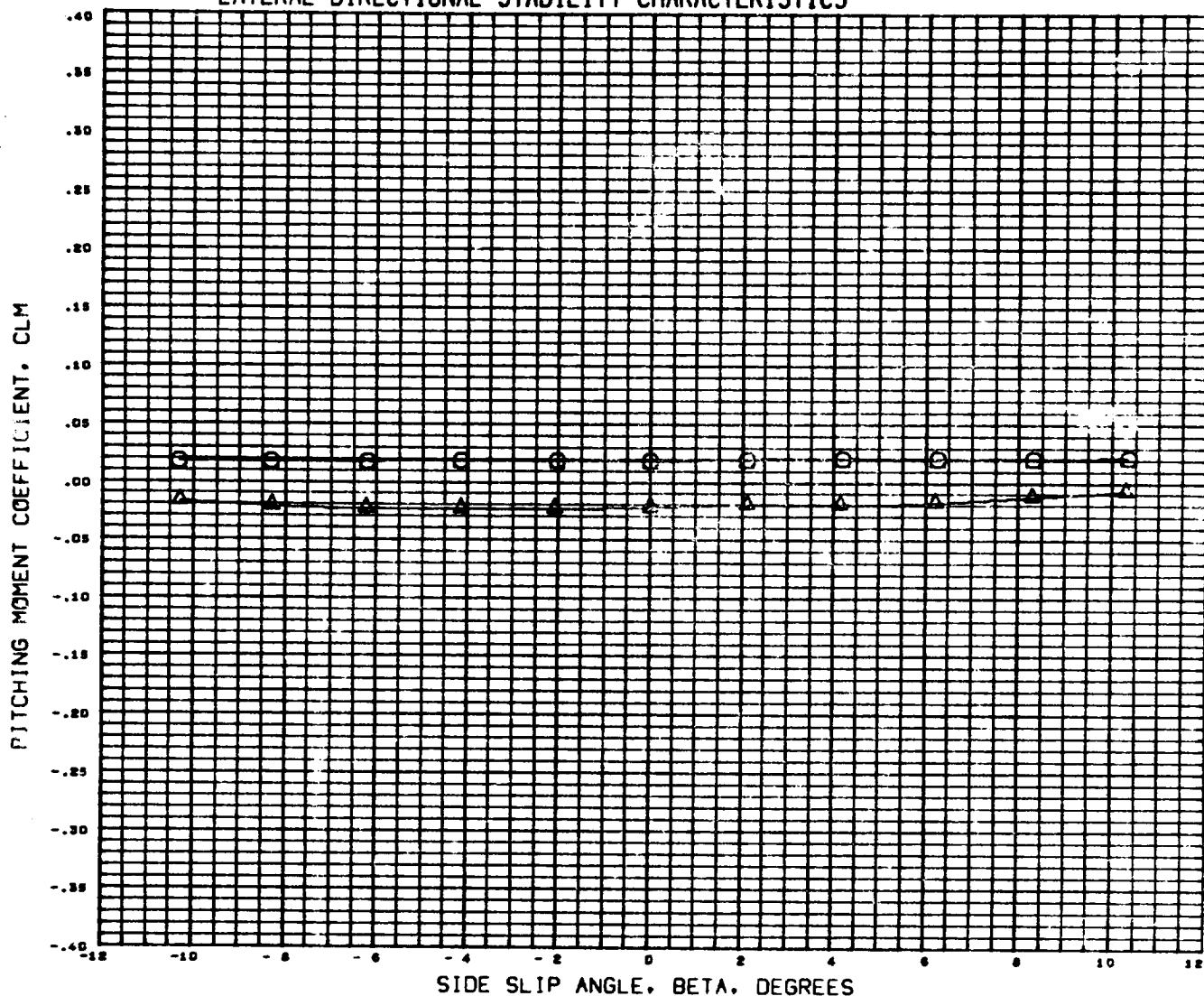
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 88. IN.
(E3404G)	M492-MSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRF 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRF 0.0000 IN.
						ZMRF 0.0000 IN.
						SCALE 0.0025

MACH 0.897

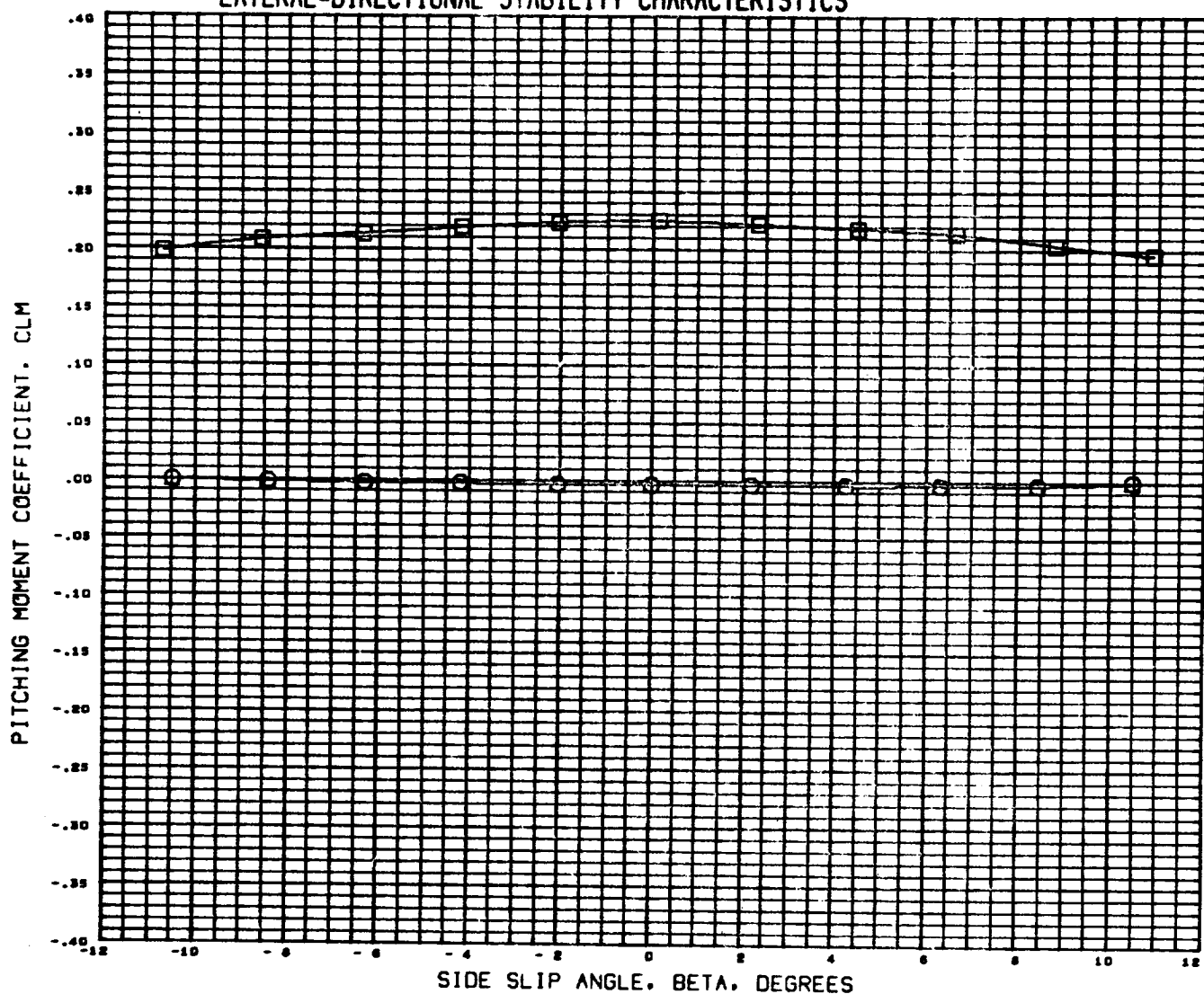
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MBFC AR11081-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	BREF 4.6225 38.1N
(E3404G)	M492-MBFC AR11081-1 MODEL B2W6C12	10.500	0.000	0.000	0.001	LREF 4.3000 1N
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YNRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 1.198

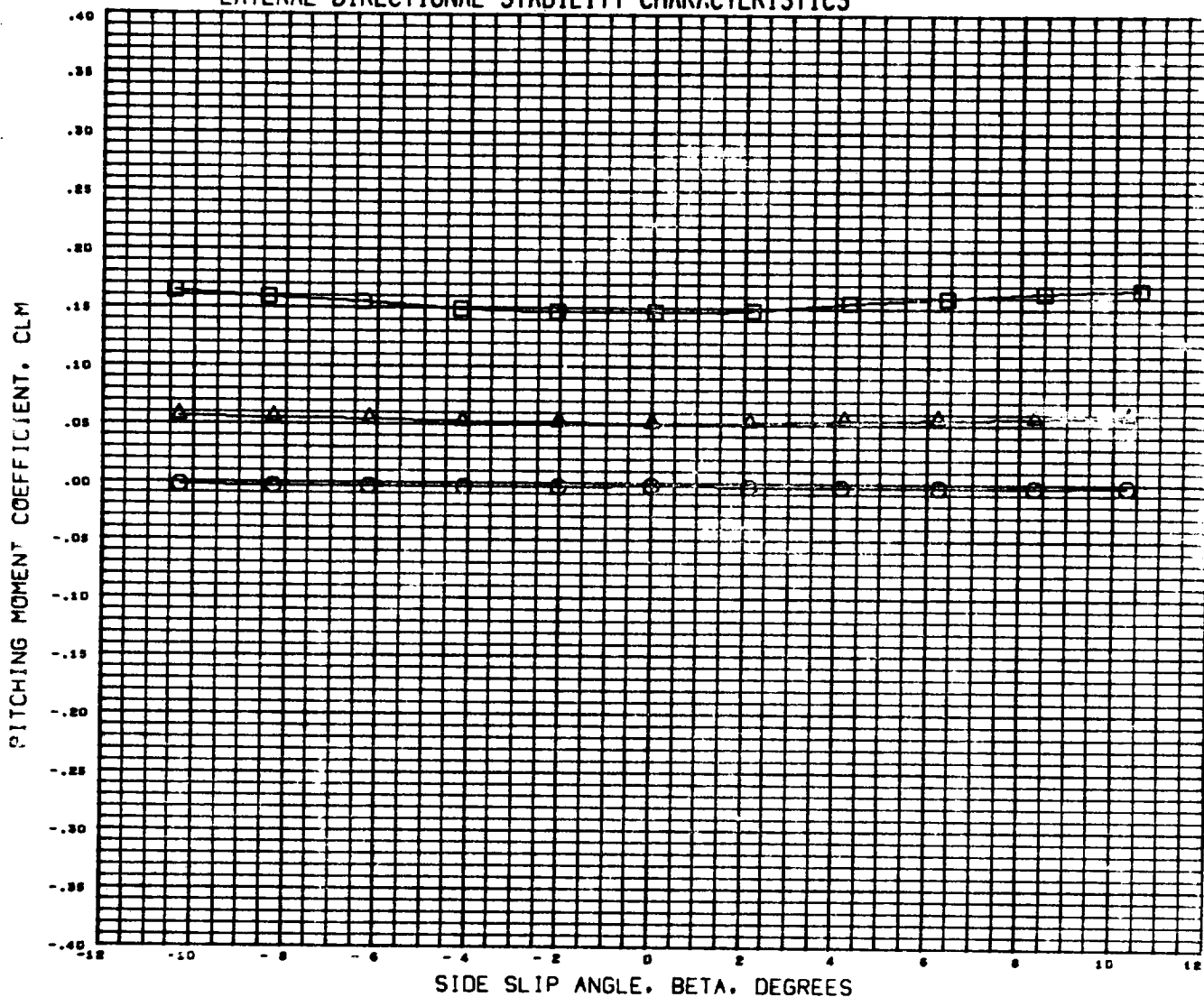
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-M3FC AR11991-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 96.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3600 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-M3FC AR11991-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.955

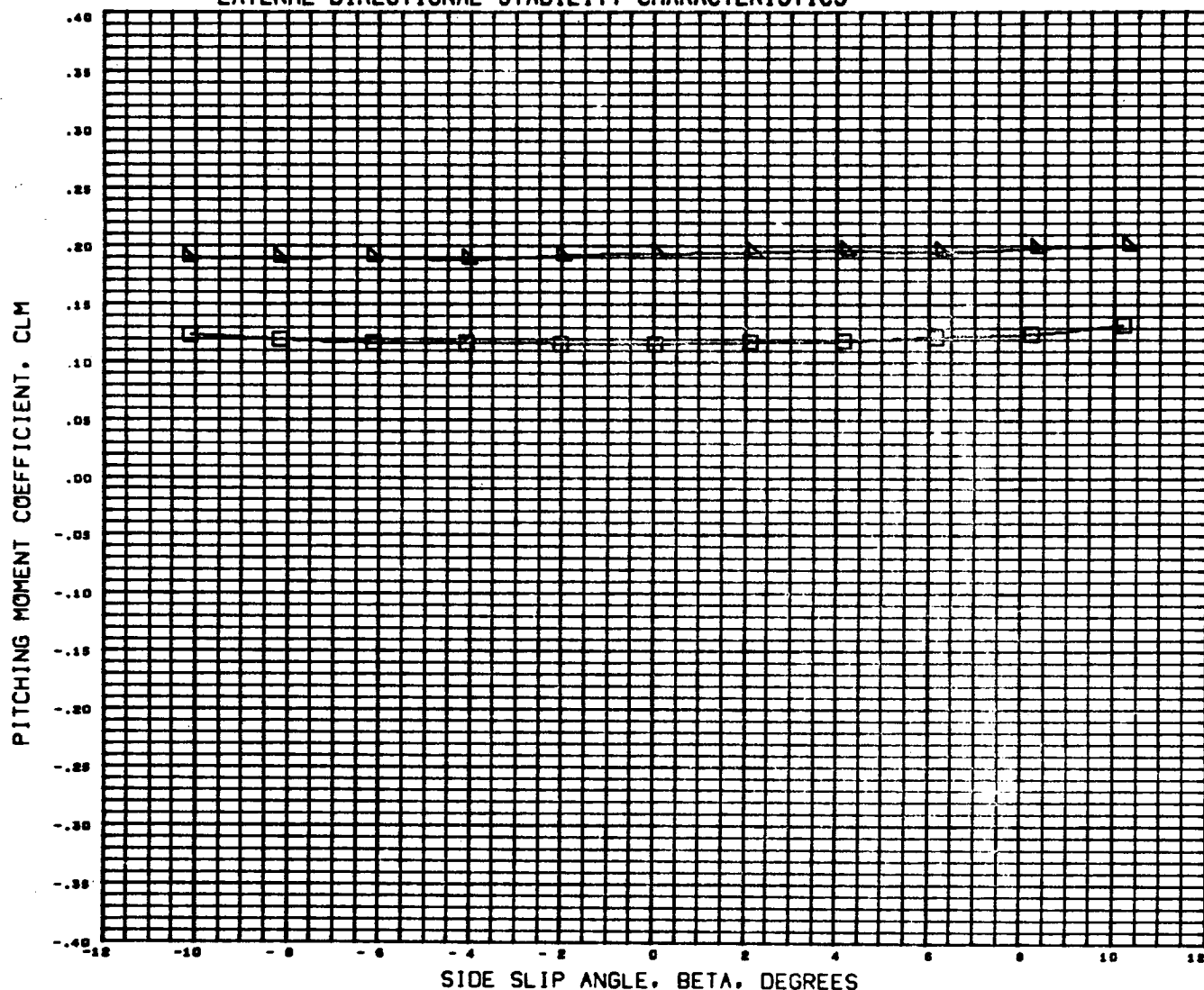
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-HSFC AR1101-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6275 SQ. IN.
(E3404G)	M492-HSFC AR1101-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3500 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-HSFC AR1101-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025 IN.

MACH 3.460

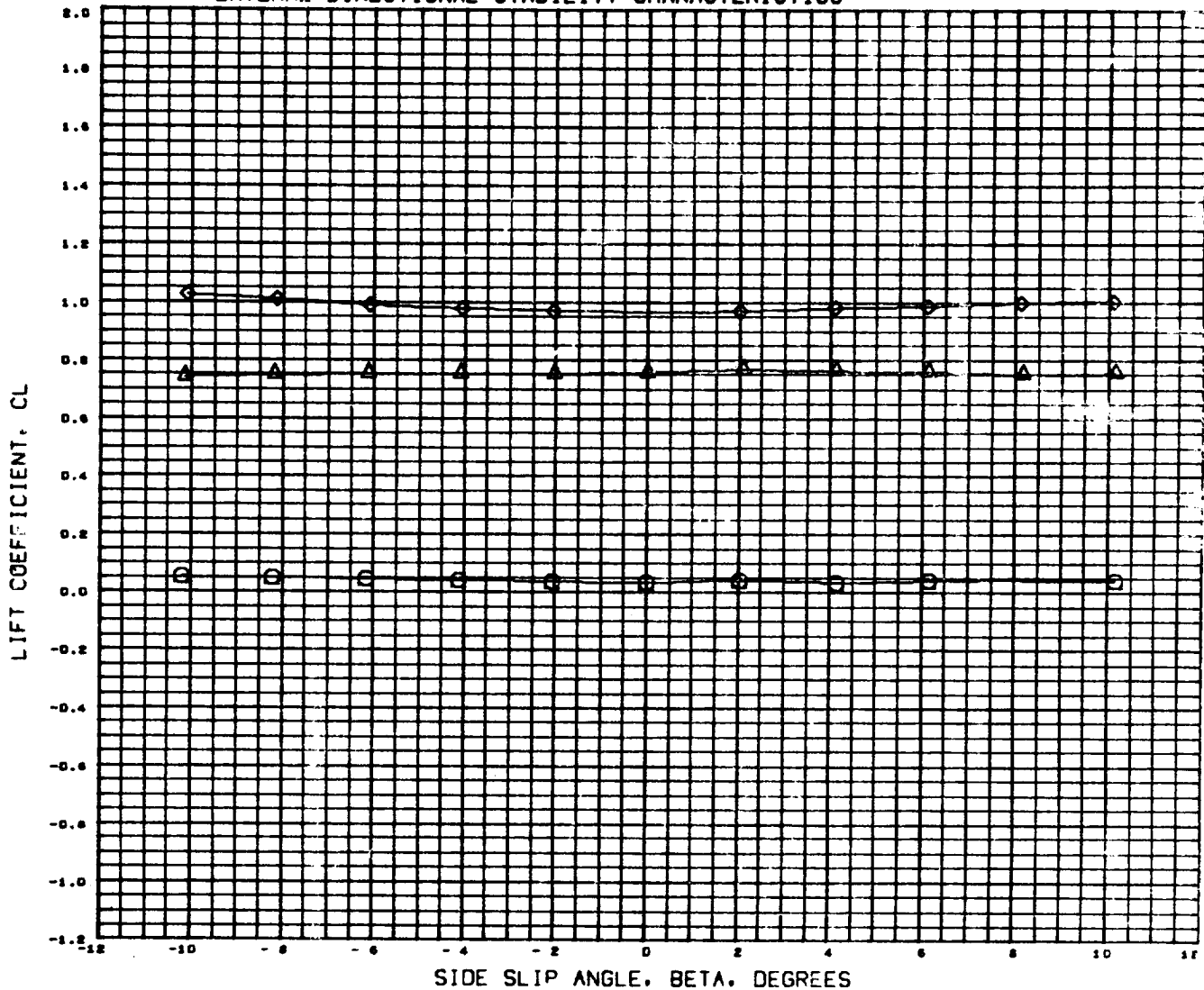
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.62 1 30.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.900	0.000	0.000	0.000	LREF 4.3012 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.900	0.000	0.000	0.000	SRFP 4.3012 IN.
(E3404I)	M492-N5FC AR1190I-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	XWRP 2.4000 IN.
(E3404J)	M492-N5FC AR1190I-1 MODEL 82W6C12	51.000	0.000	0.000	0.000	YWRP 0.0000 IN.
						ZWRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

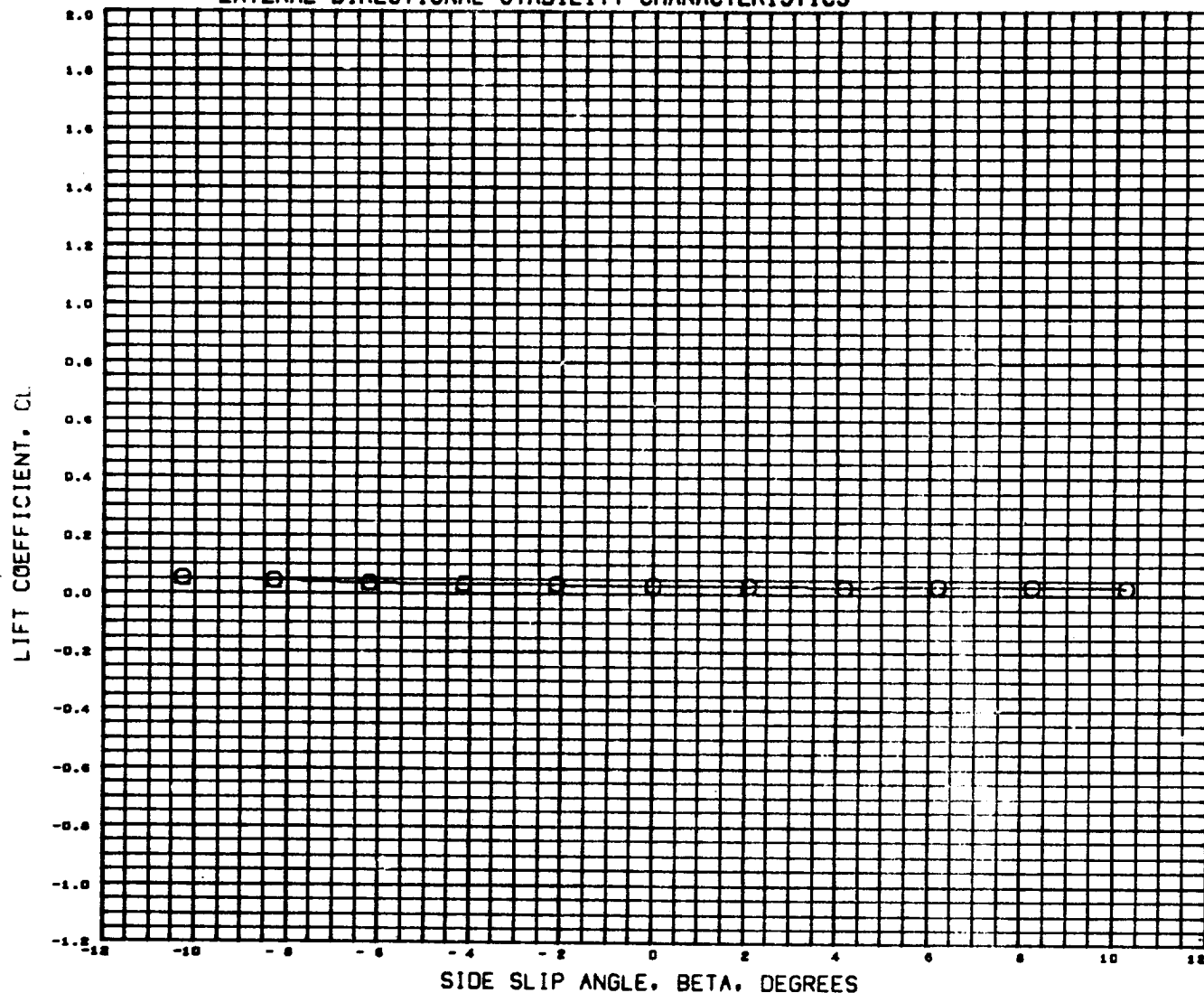
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-HSFC AR11781-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN
(E3404G)	M492-HSFC AR11781-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN
(E3404H)	M492-HSFC AR11781-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	BREF 4.3000 IN
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN
						ZMRP 0.0000 IN
						SCALE 0.0025

MACH 0.60

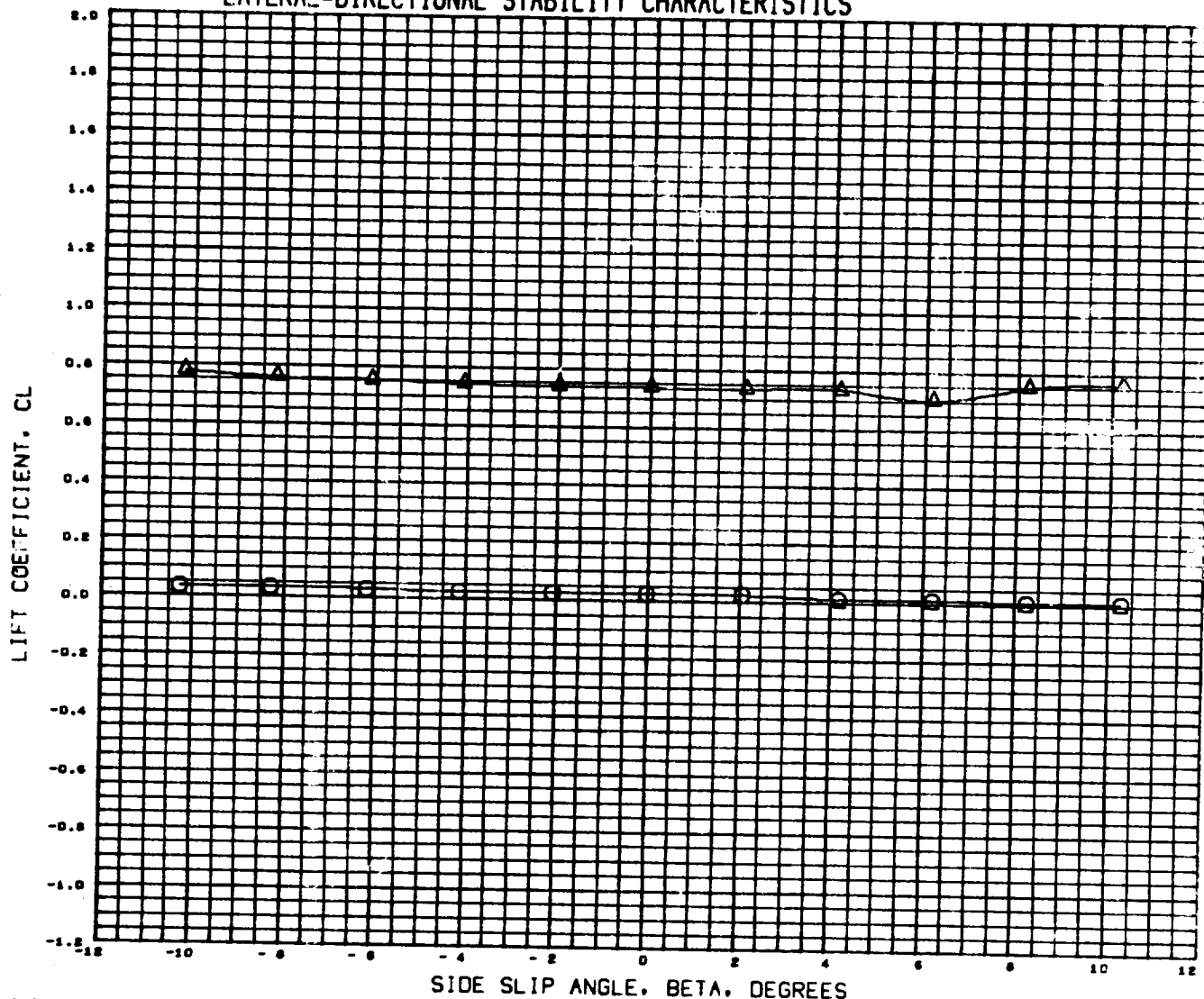
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	M49E-MBFC AR1981-1 MODEL BW6C12	0.000	0.000	0.000	0.000	SREF	4.6225 50. IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.801

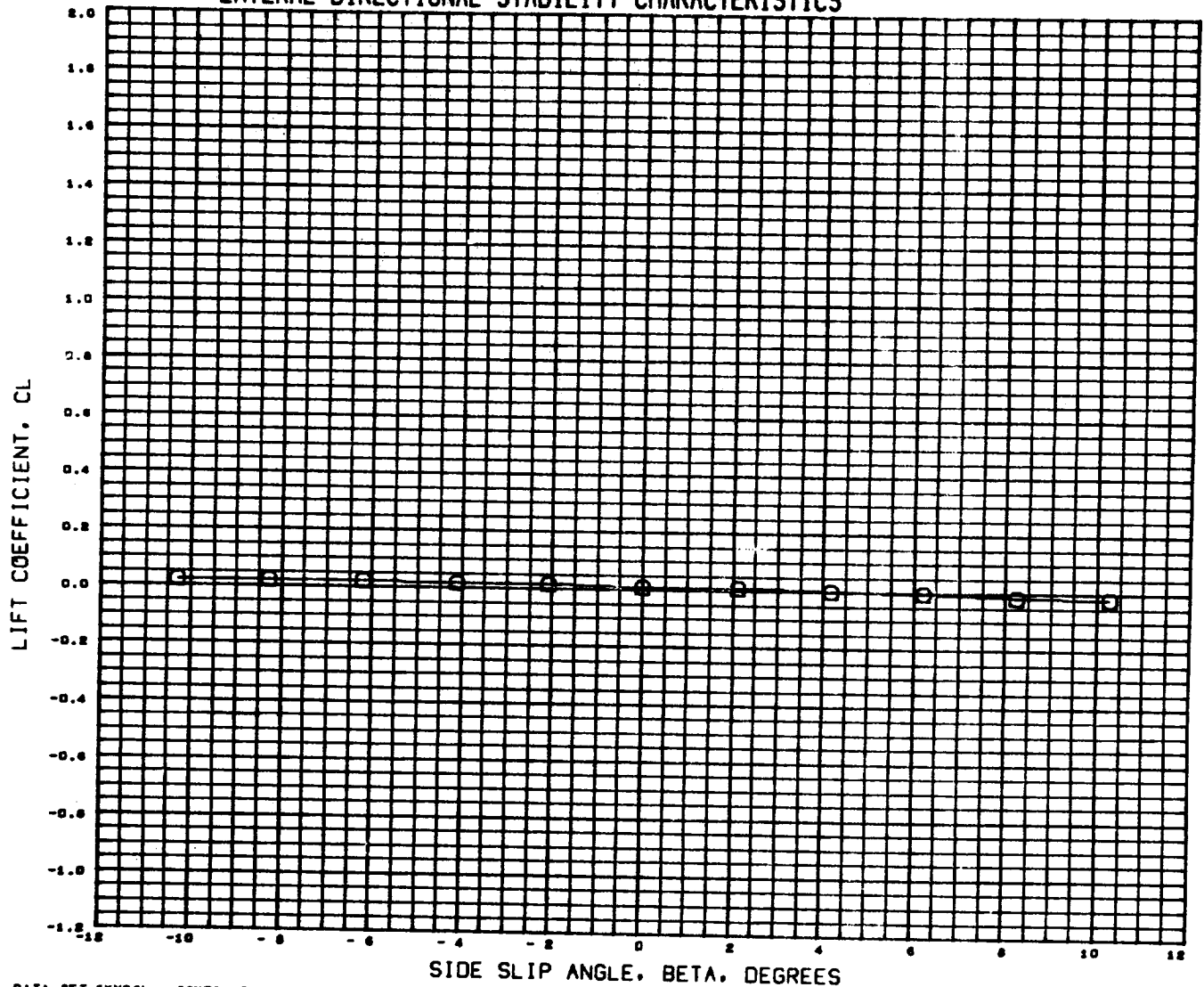
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-NBFC AR11291-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF 4.6225 54.10
(E3404G)	M492-NBFC AR11291-1 MODEL BZW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.99

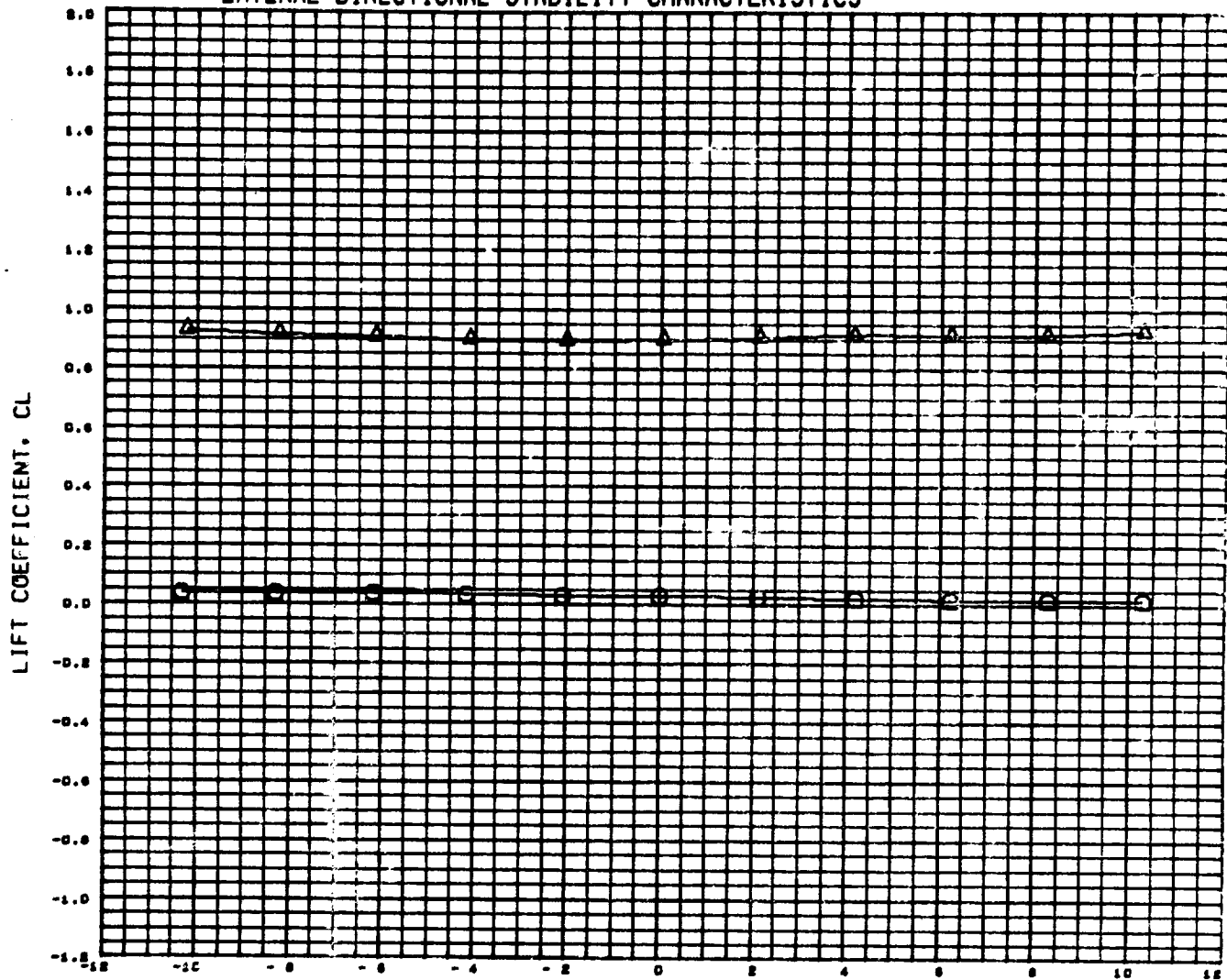
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-M8FC AR11981-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.947

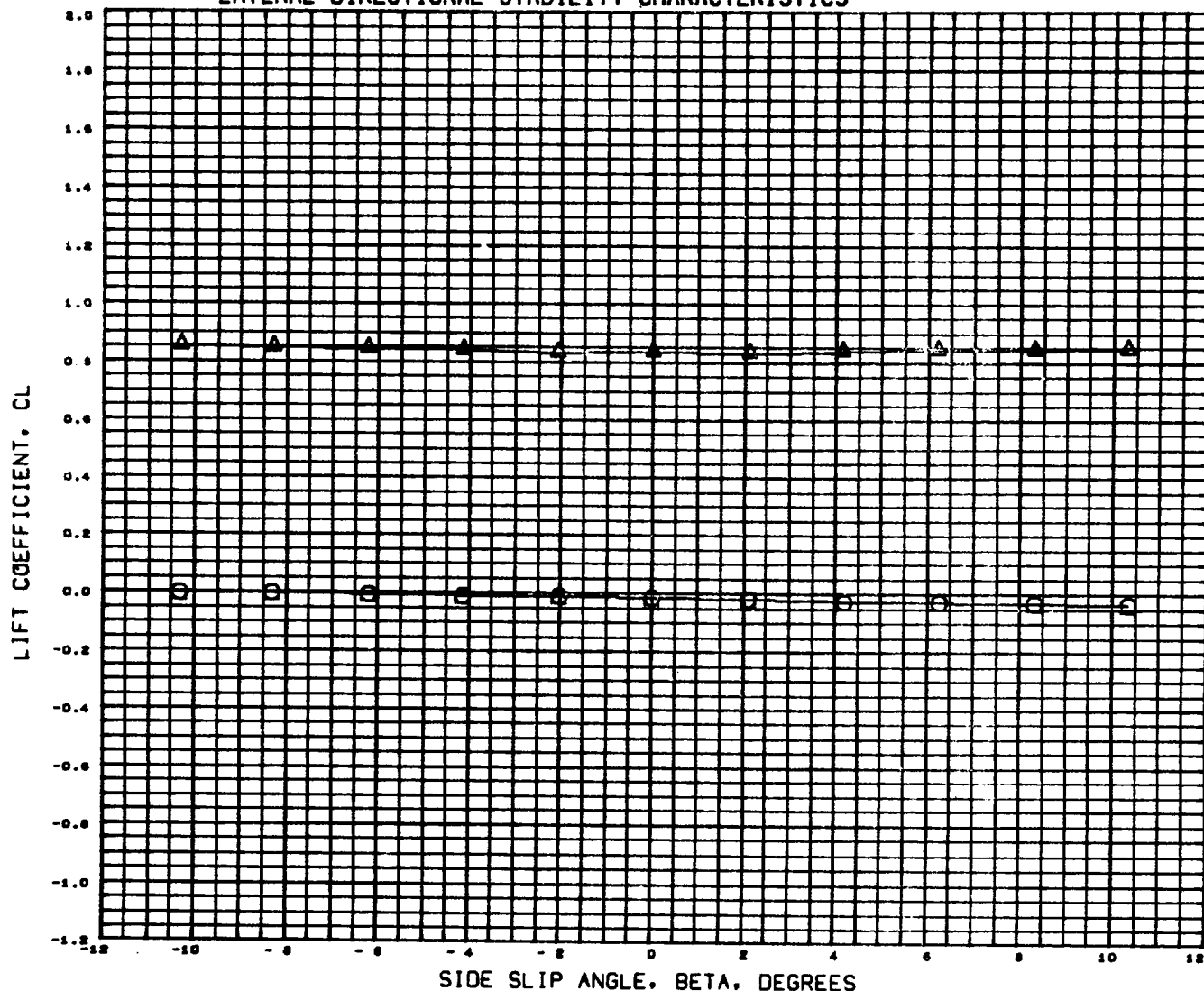
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M498-NSFC AR150 I-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	BREF 4.6225 88. IN.
(E3404G)	M498-NSFC AR150 I-1 MODEL 82W6C12	10.900	0.000	0.000	0.000	LRFP 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	19.900	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 8.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.95

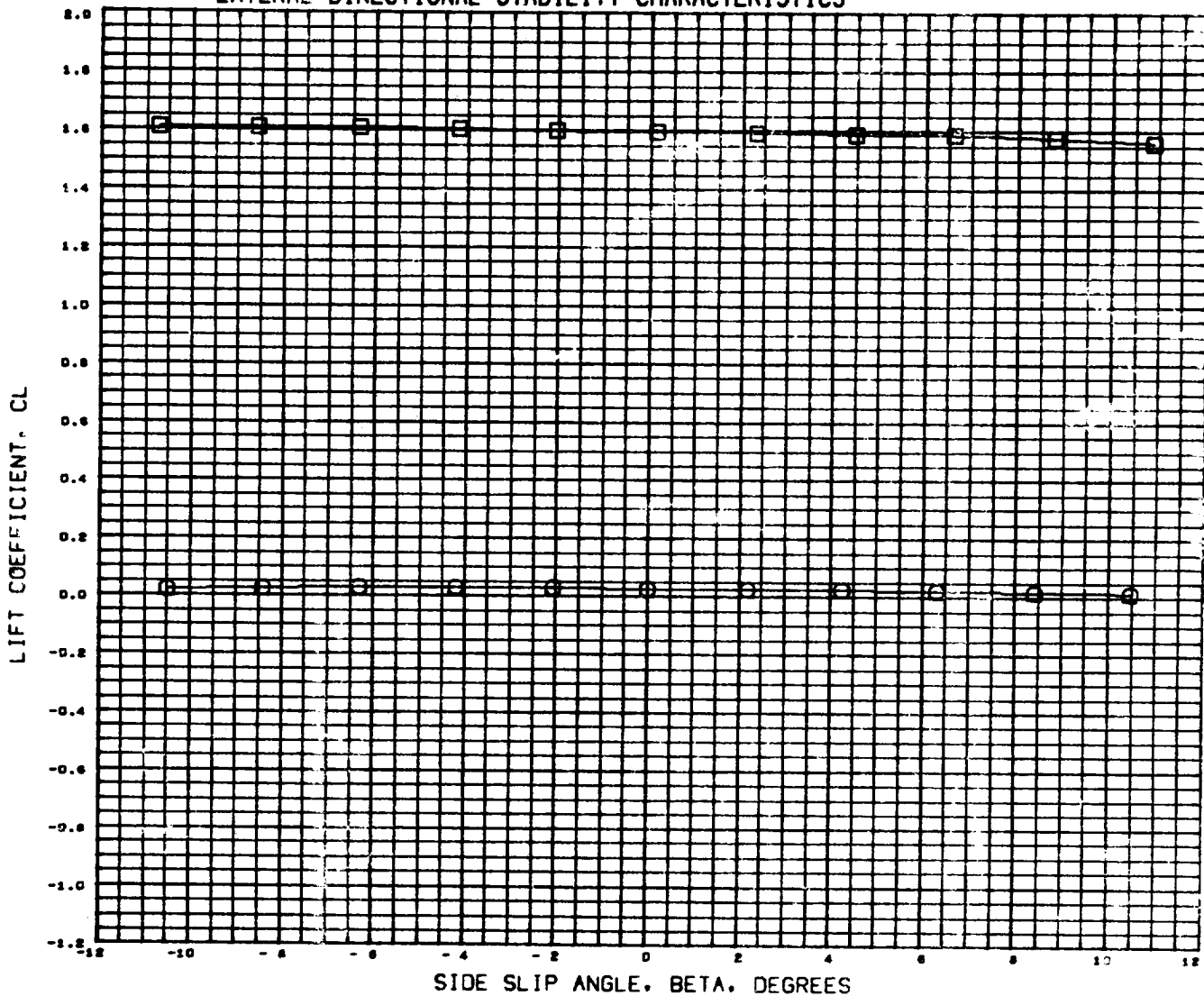
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E34047)	M492-MSFC ARI1981-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF 4.6229 50.IN.
(E34048)	M492-MSFC ARI1981-1 MODEL BZW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F34049)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E34041)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E34042)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.190

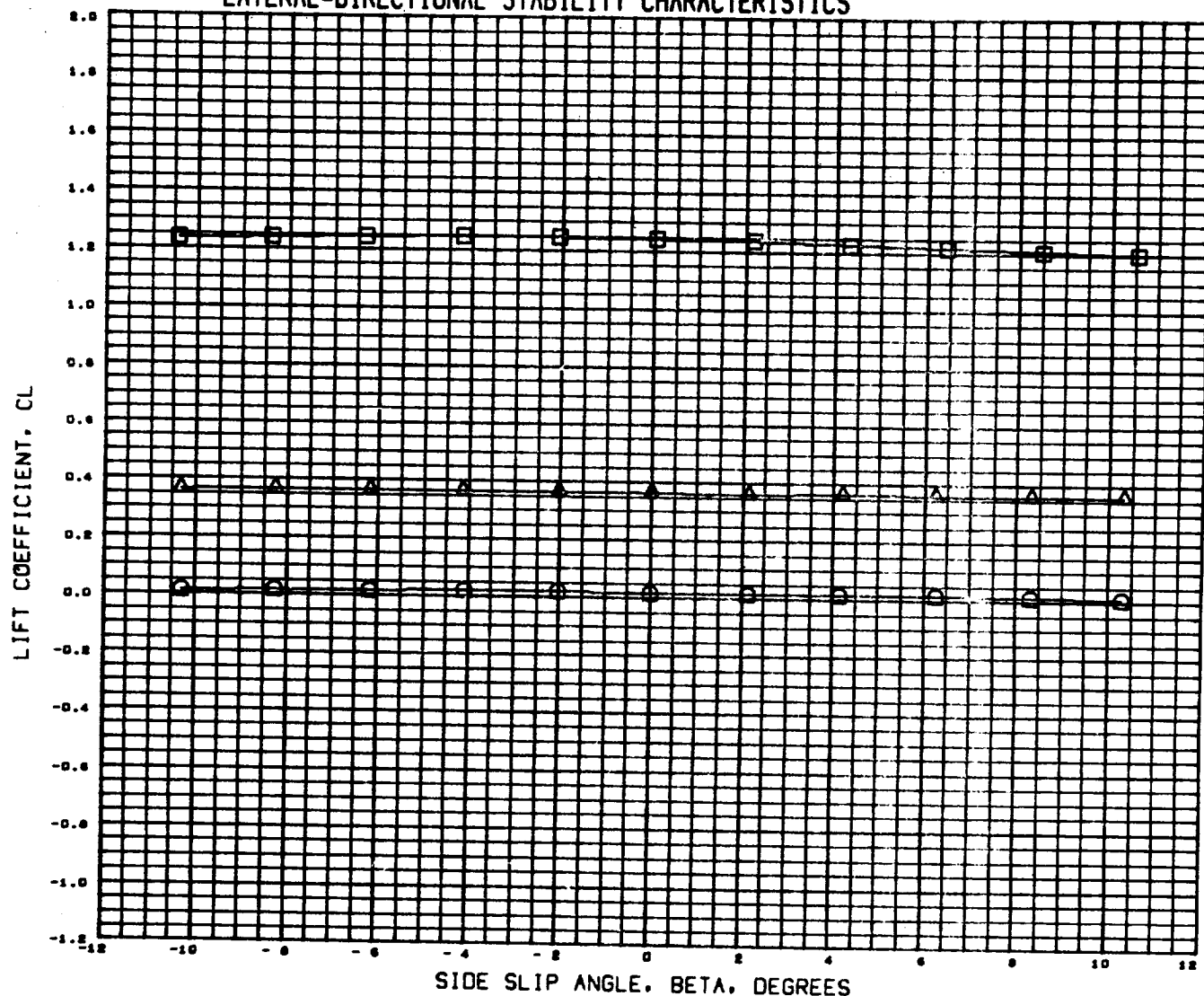
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	M492-HSFC AR11:51-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF	4.6225 SP. IN
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN
(E3404I)	M492-HSFC AR11:51-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP	8.4000 IN
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	0.0000 IN
						ZMRP	0.0000 IN
						SCALE	0.0025

NACH 1 955

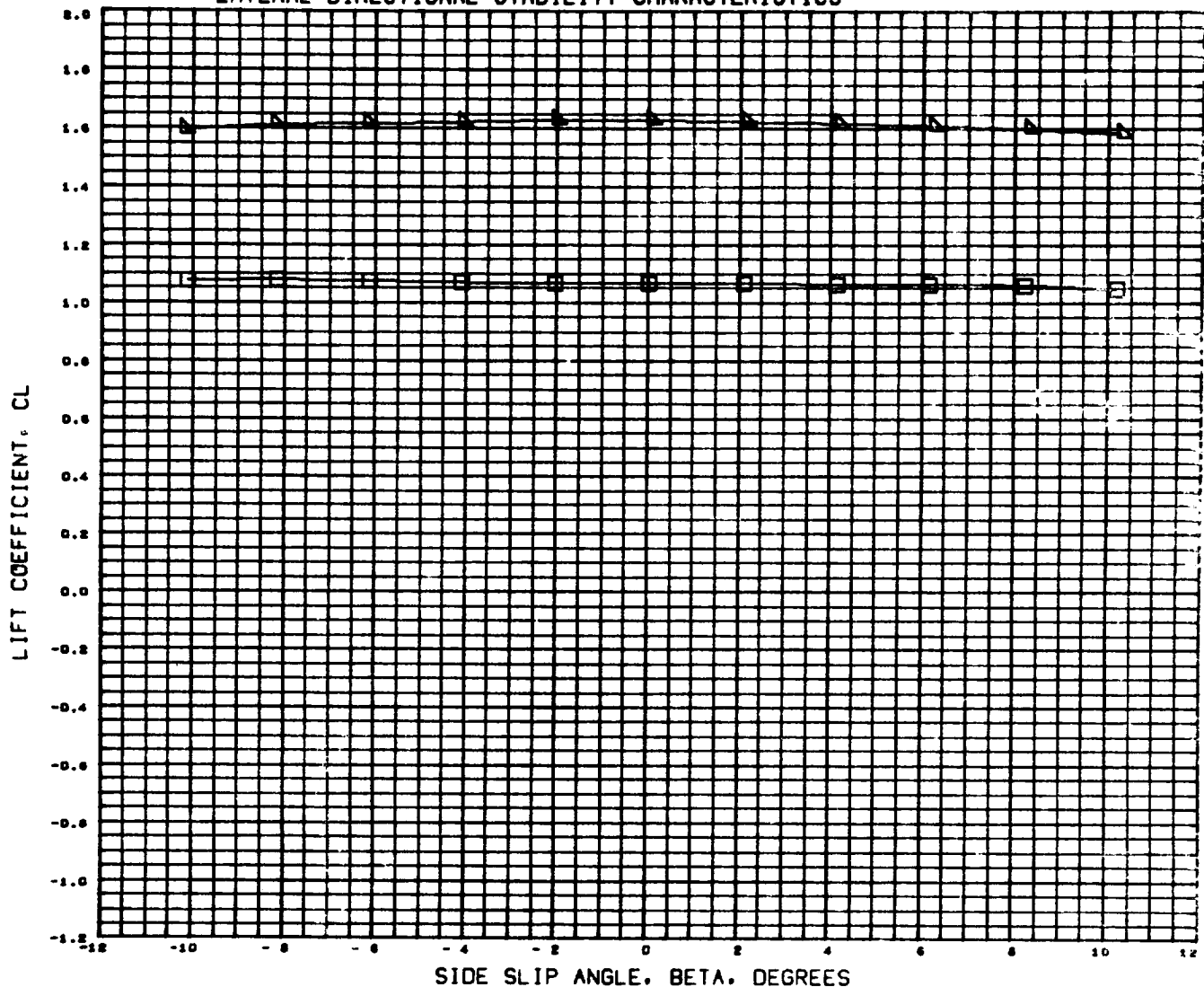
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3404G)	M492-MSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3404I)	M492-MSFC AR11981-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

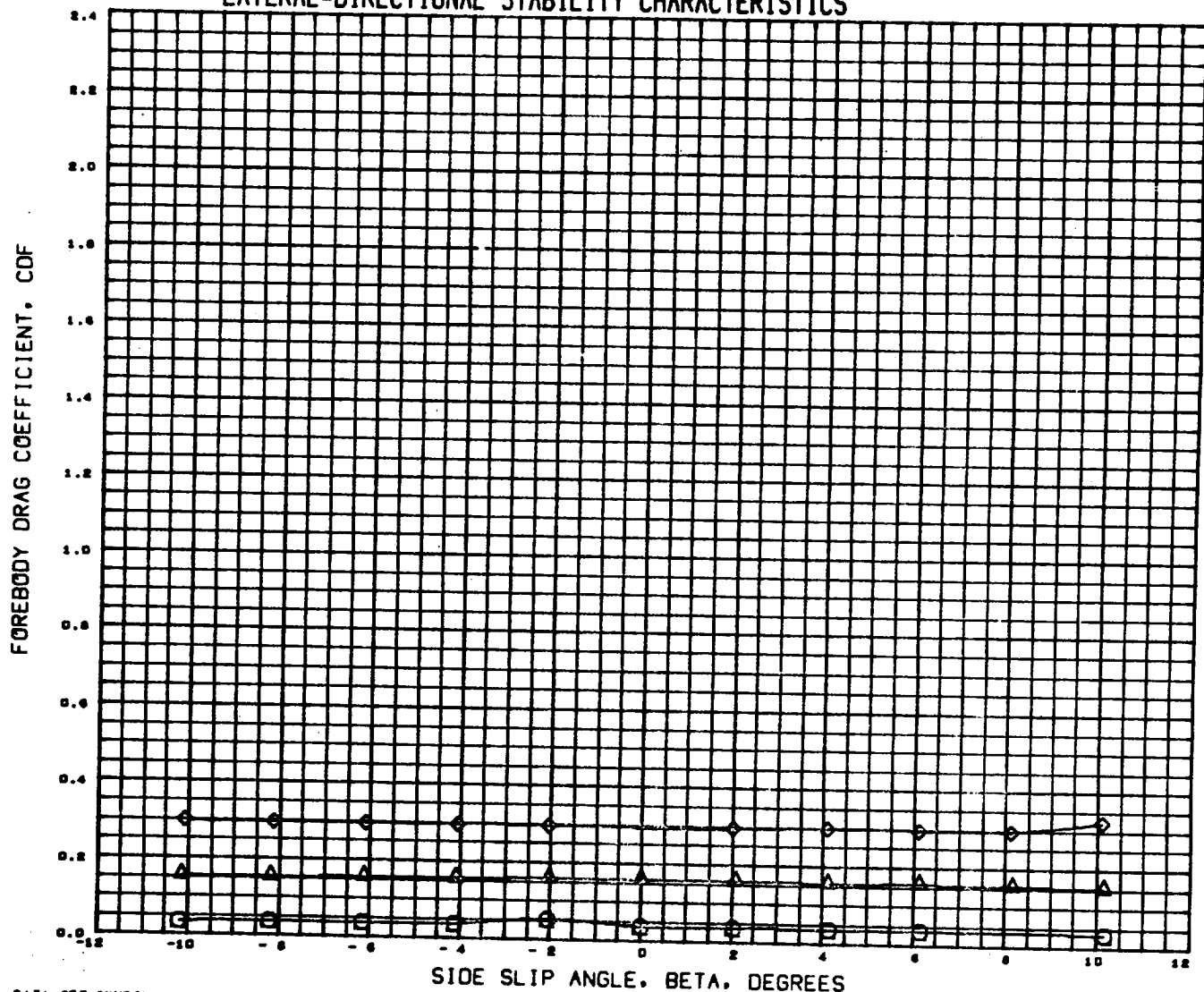
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E9404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50. IN.
(E9404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E9404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E9404I)	M492-KSPC AR11581-1 MODEL BZW6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E9404J)	M492-KSPC AR11581-1 MODEL BZW6C12	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.955

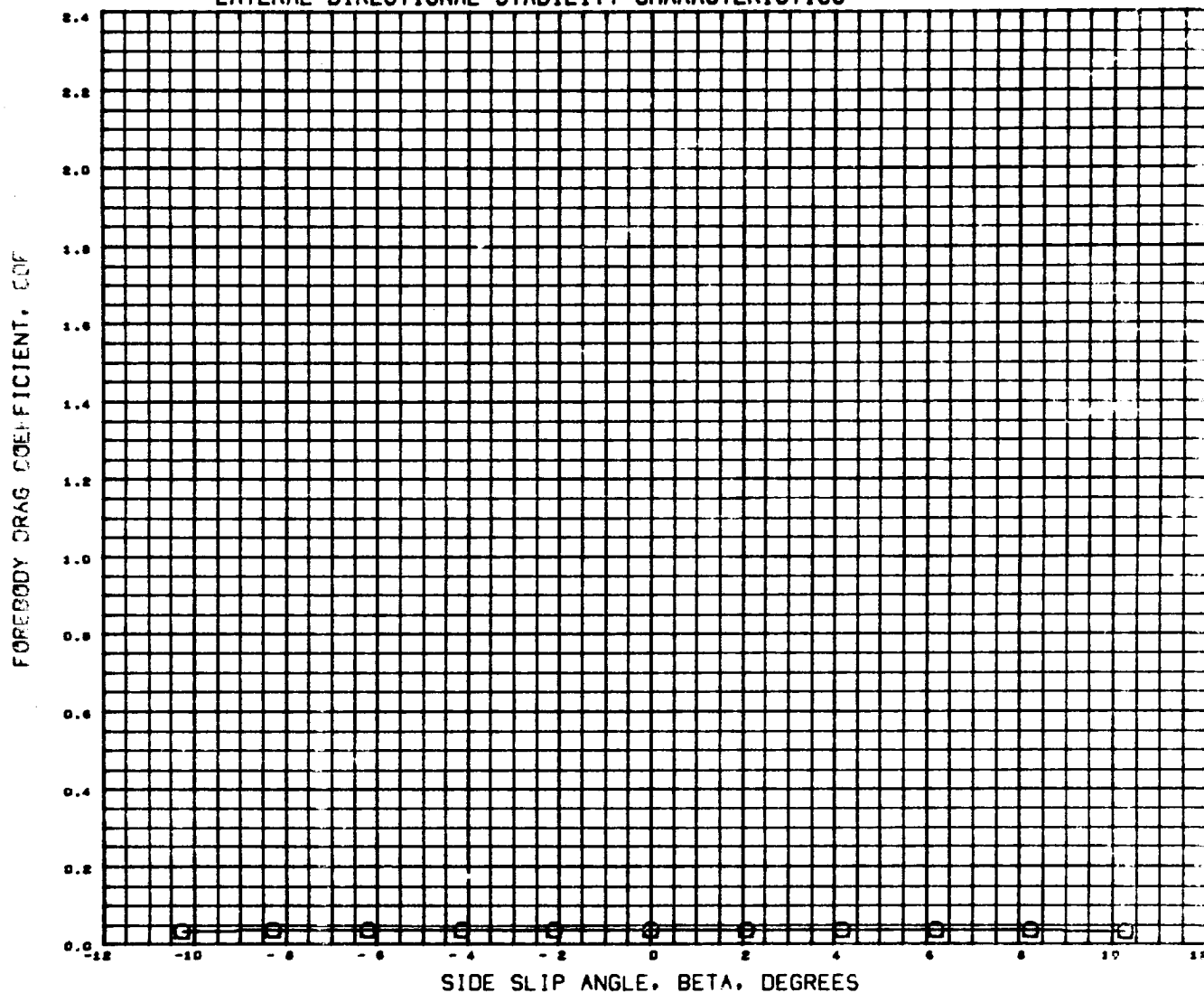
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-NBFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 80.IN.
(E3404G)	M492-NBFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	M492-NBFC AR11981-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.600

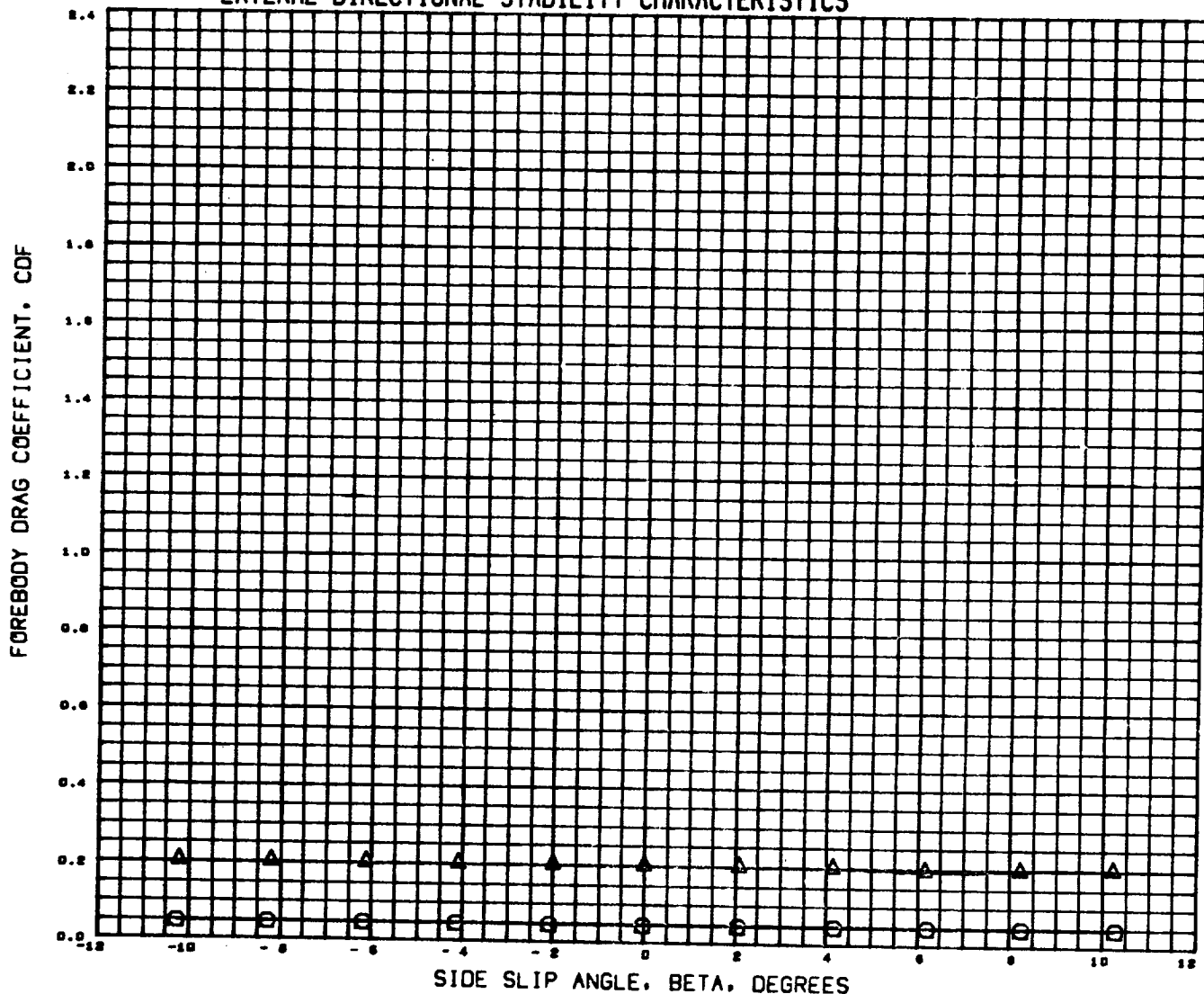
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARC	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	N492-HSFC AR11381-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	BREF	4.6225 50.1%
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 1%
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 1%
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 1%
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 1%
						ZMRP	0.0000 1%
						SCALE	0.0025

MACH 0.80

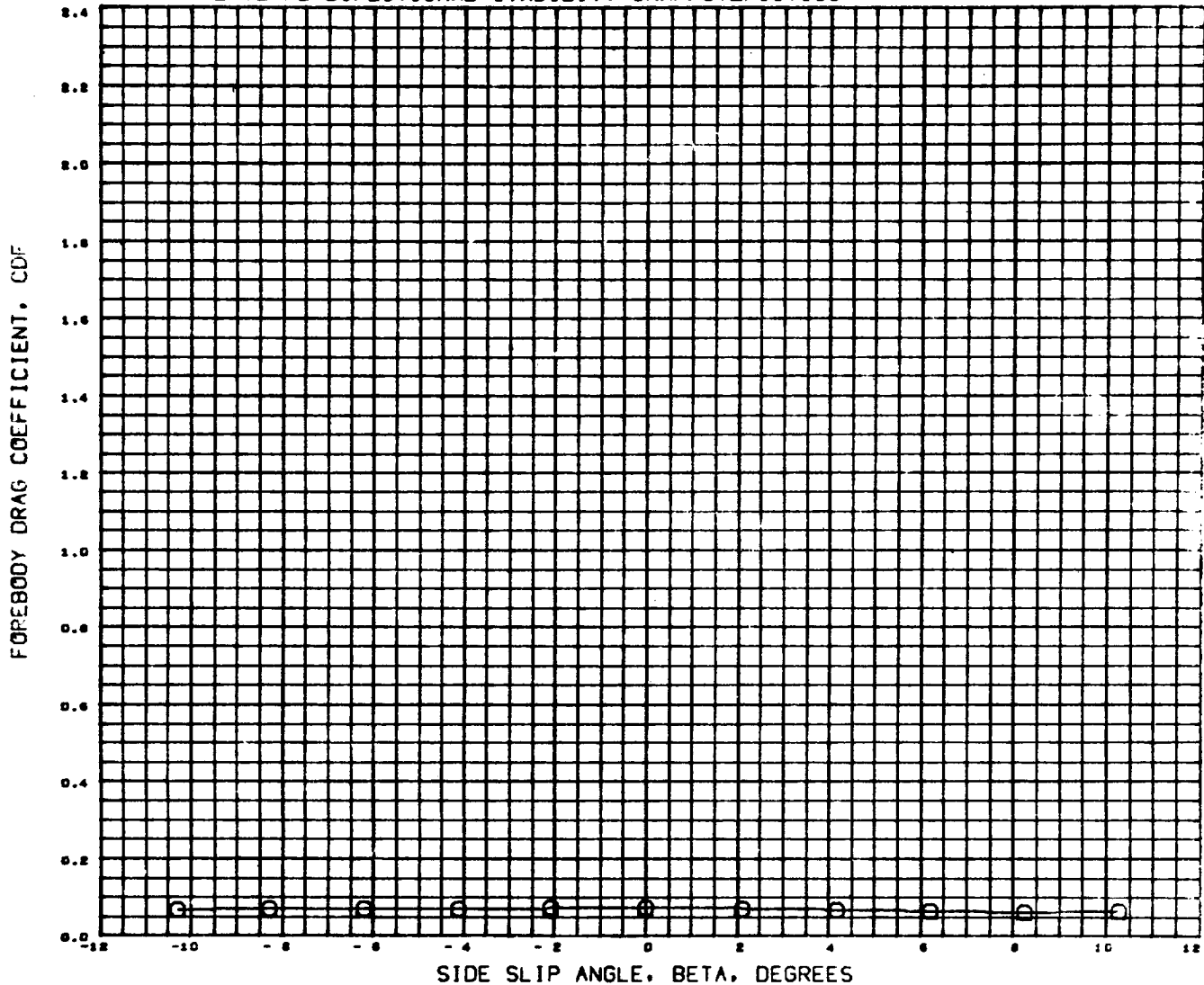
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-NSFC AR1198I-1 MODEL BZW6C12	0.000	0.000	0.000	0.000	SREF 4.6225 88.IN.
(E3404G)	N492-NSFC AR1198I-1 MODEL BZW6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.694

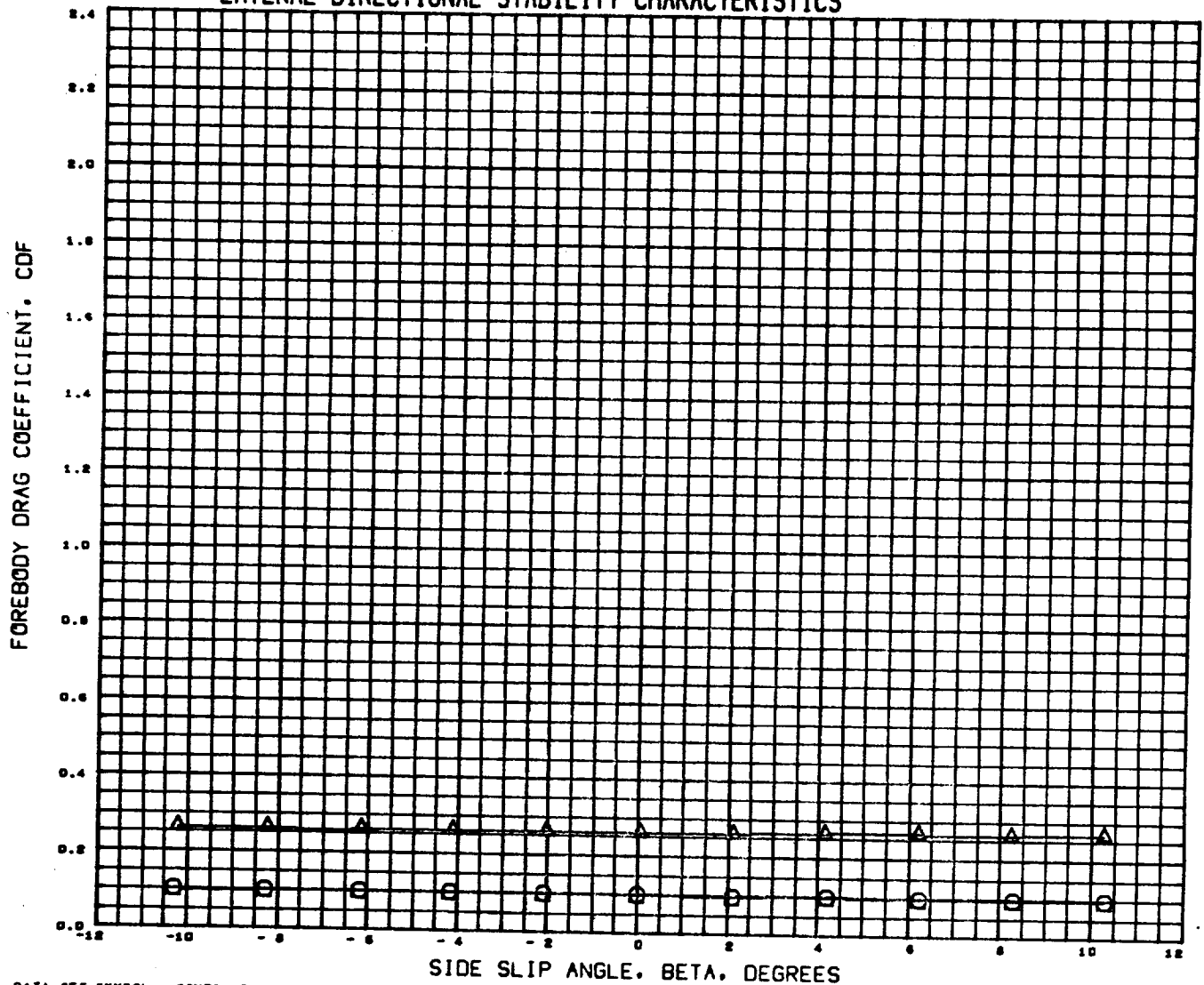
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARC	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	M492-M3FC AR11981-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF	4.6225 50.10
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 1N
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	21.000	0.000	0.000	0.000	XMRP	2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	0.0000 1N
						ZMRP	0.0000 1N
						SCALE	0.0025

MACH 0.947

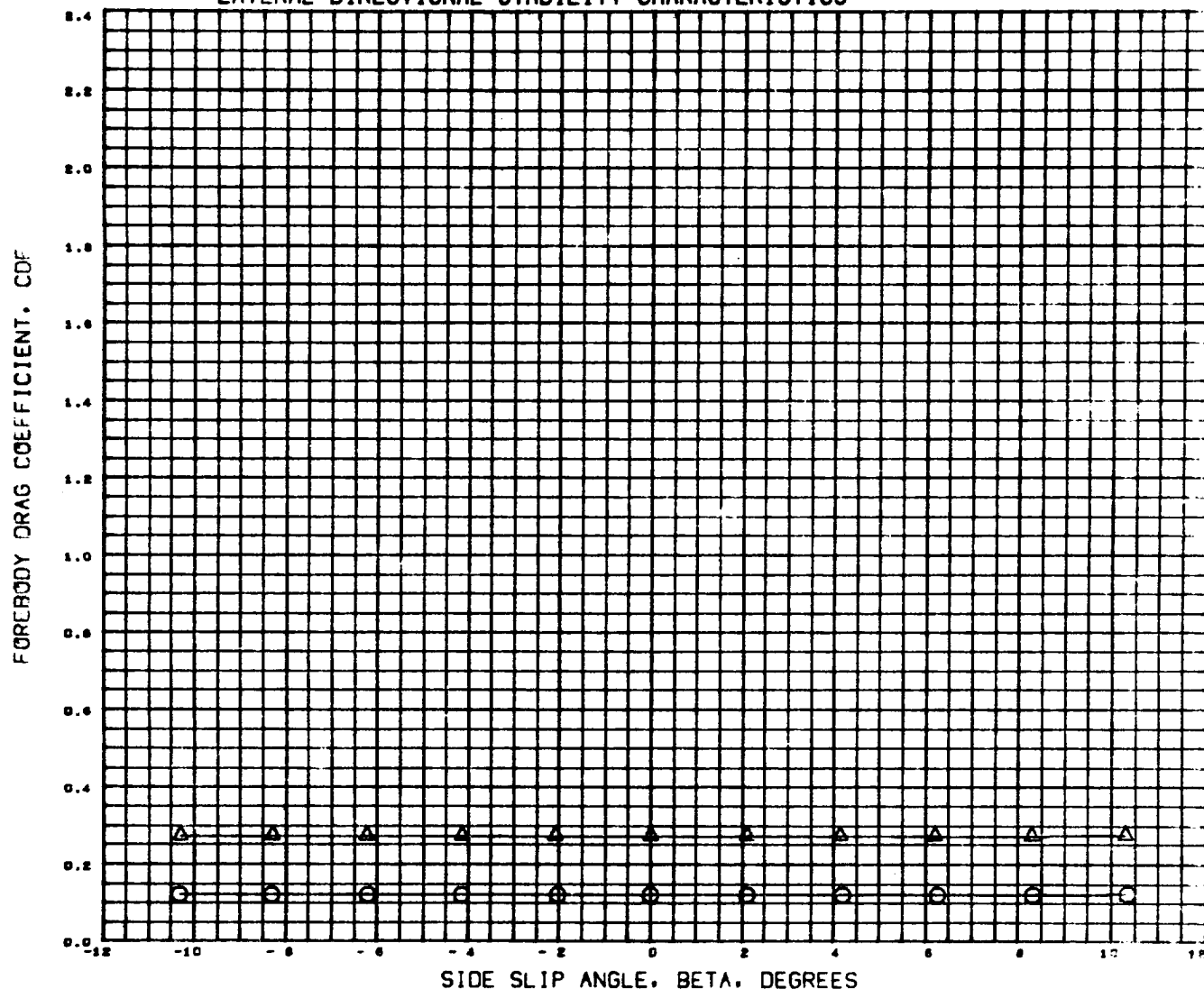
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-M8FC AR1981-1 MODEL B2W6C32	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3404G)	M492-M8FC AR1981-1 MODEL B2W6C32	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.997

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-HSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6223 50 TH
(E3404G)	M492-HSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 1N
						ZNRP 0.0000 1N
						SCALE 0.0025

NACH 1 195

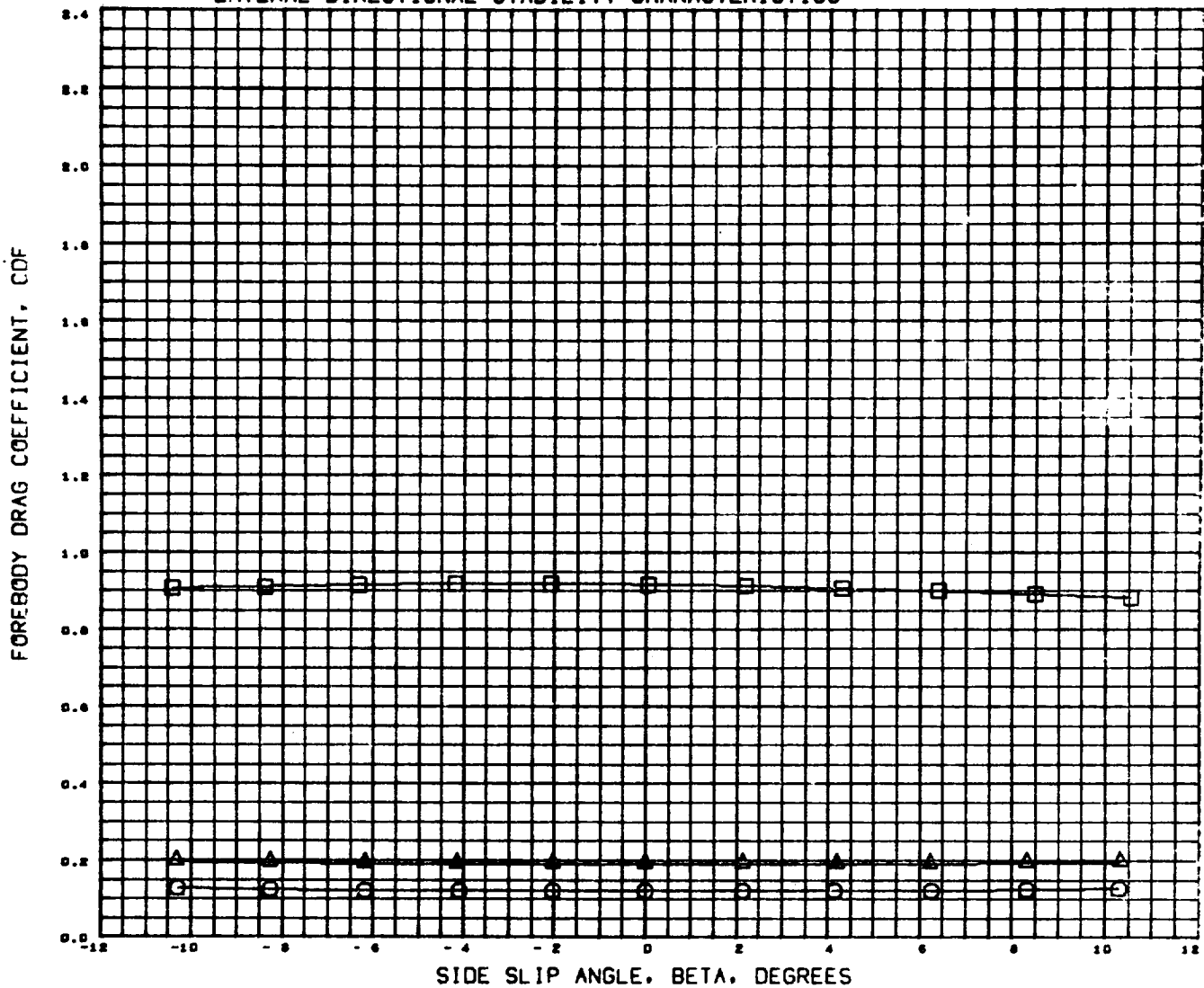
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR1981-1 MODEL 82W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	M492-MSFC AR1981-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 1.055

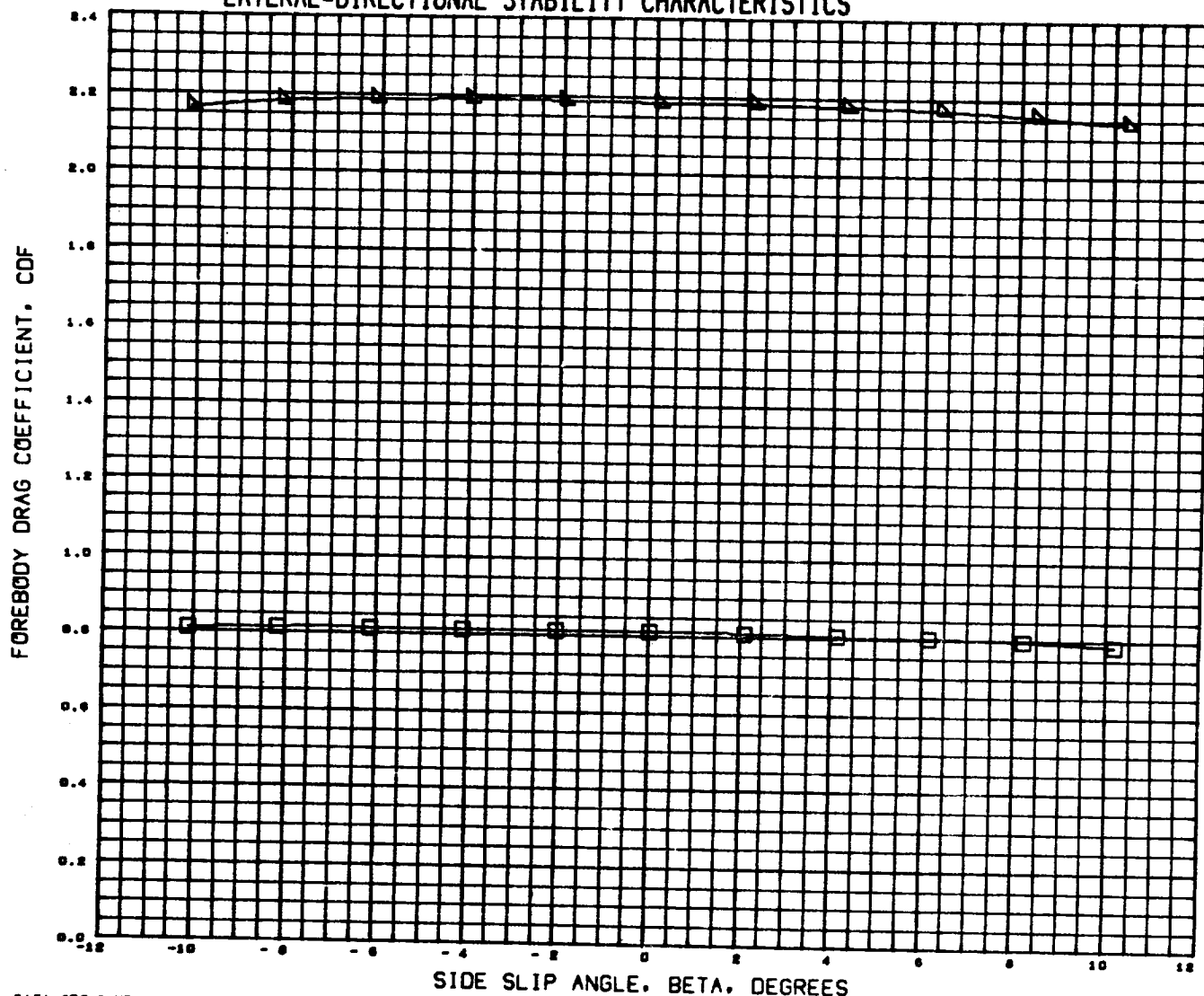
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	□	M492-HSFC AR119A1-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3404G)	△	M492-HSFC AR119A1-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404N)	○	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	□	M492-HSFC AR119A1-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	△	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 3.480

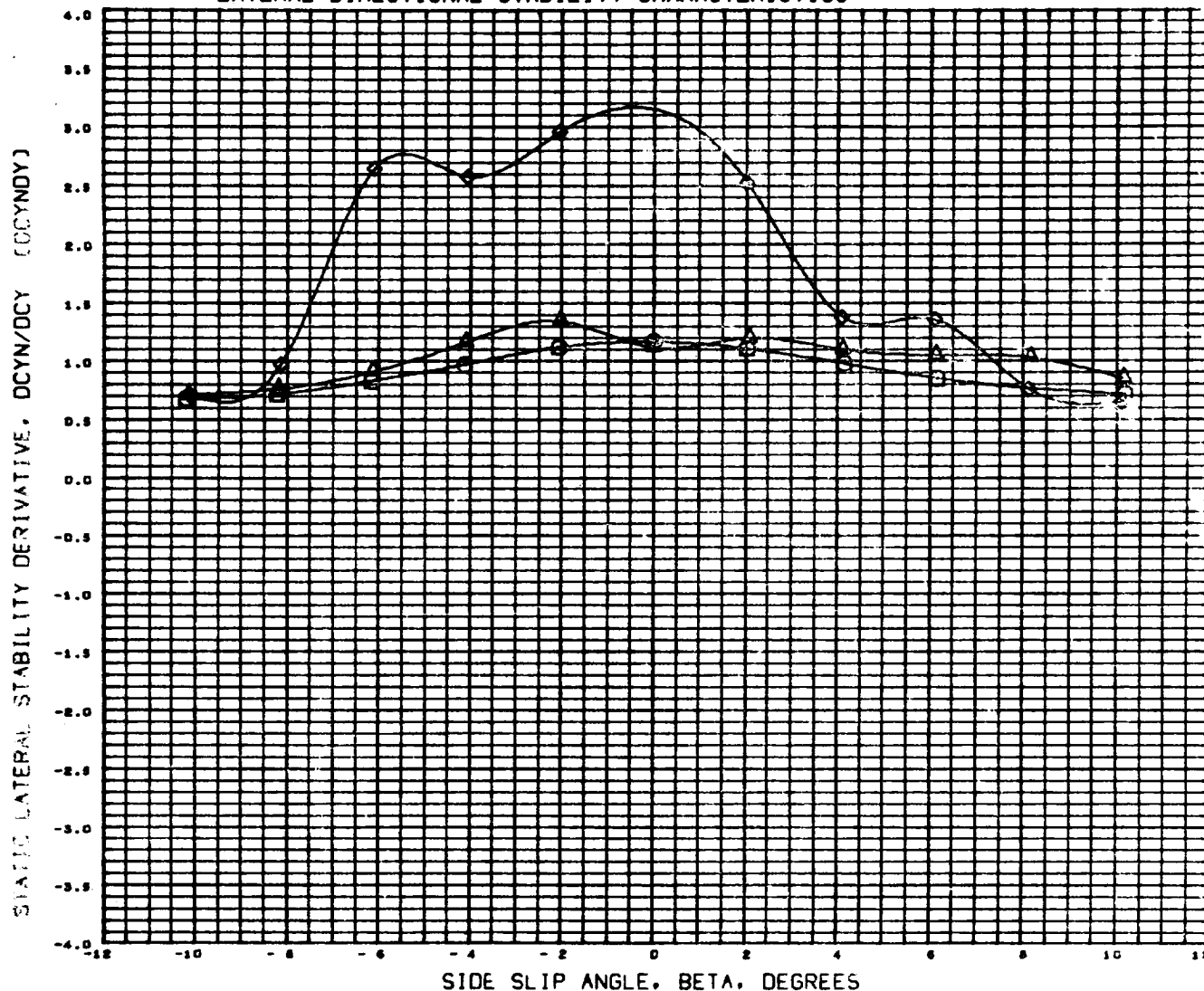
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3404I)	N492-NSFC AR11901-1 MODEL 82W6C12	31.000	0.000	0.000	0.000	YHRP 2.4000 IN.
(E3404J)	N492-NSFC AR11901-1 MODEL 82W6C12	51.000	0.000	0.000	0.000	ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

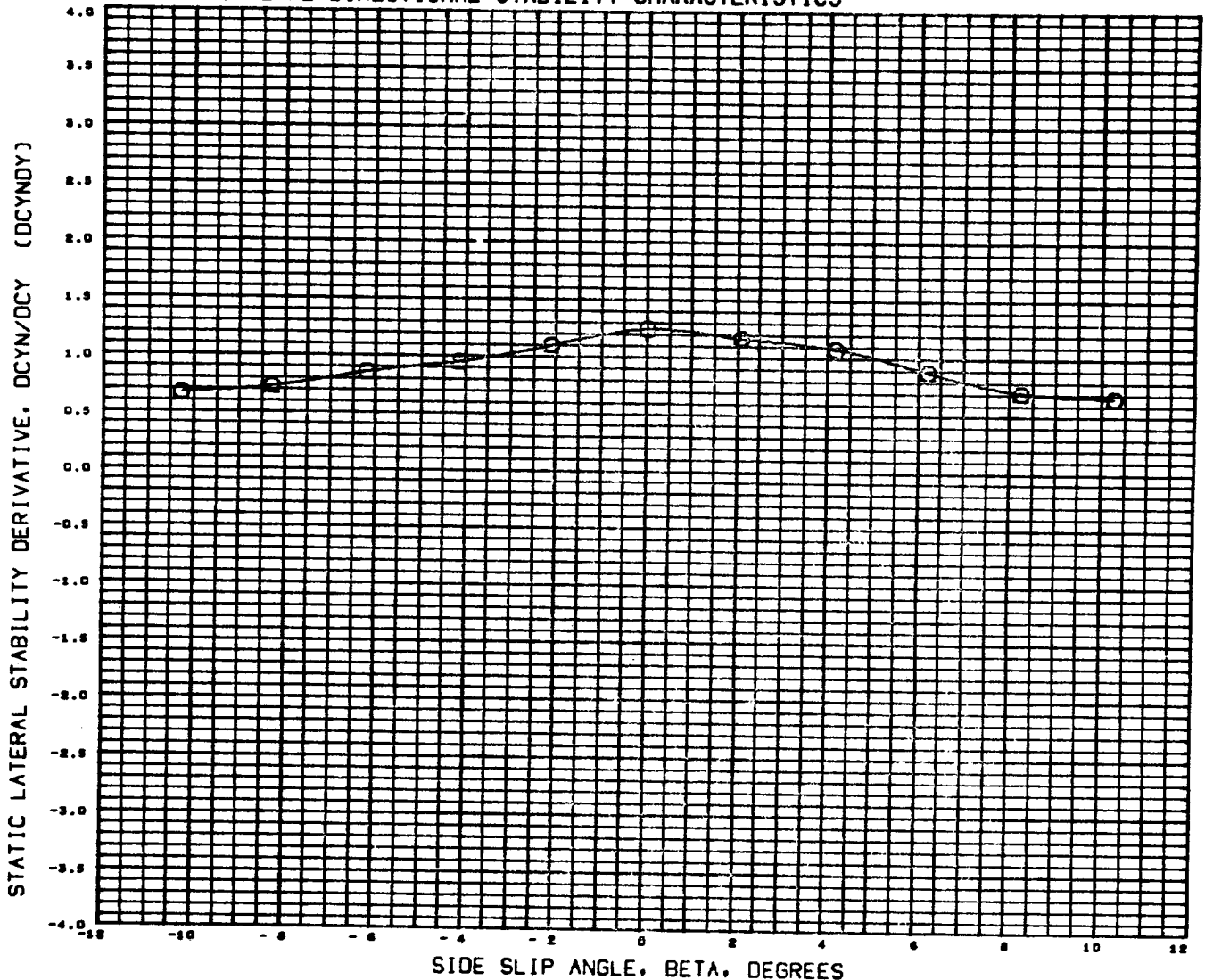
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-HSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	BREF 4.6225 30.1N
(E3404G)	N492-HSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(E3404H)	N492-HSFC AR11981-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 0.60

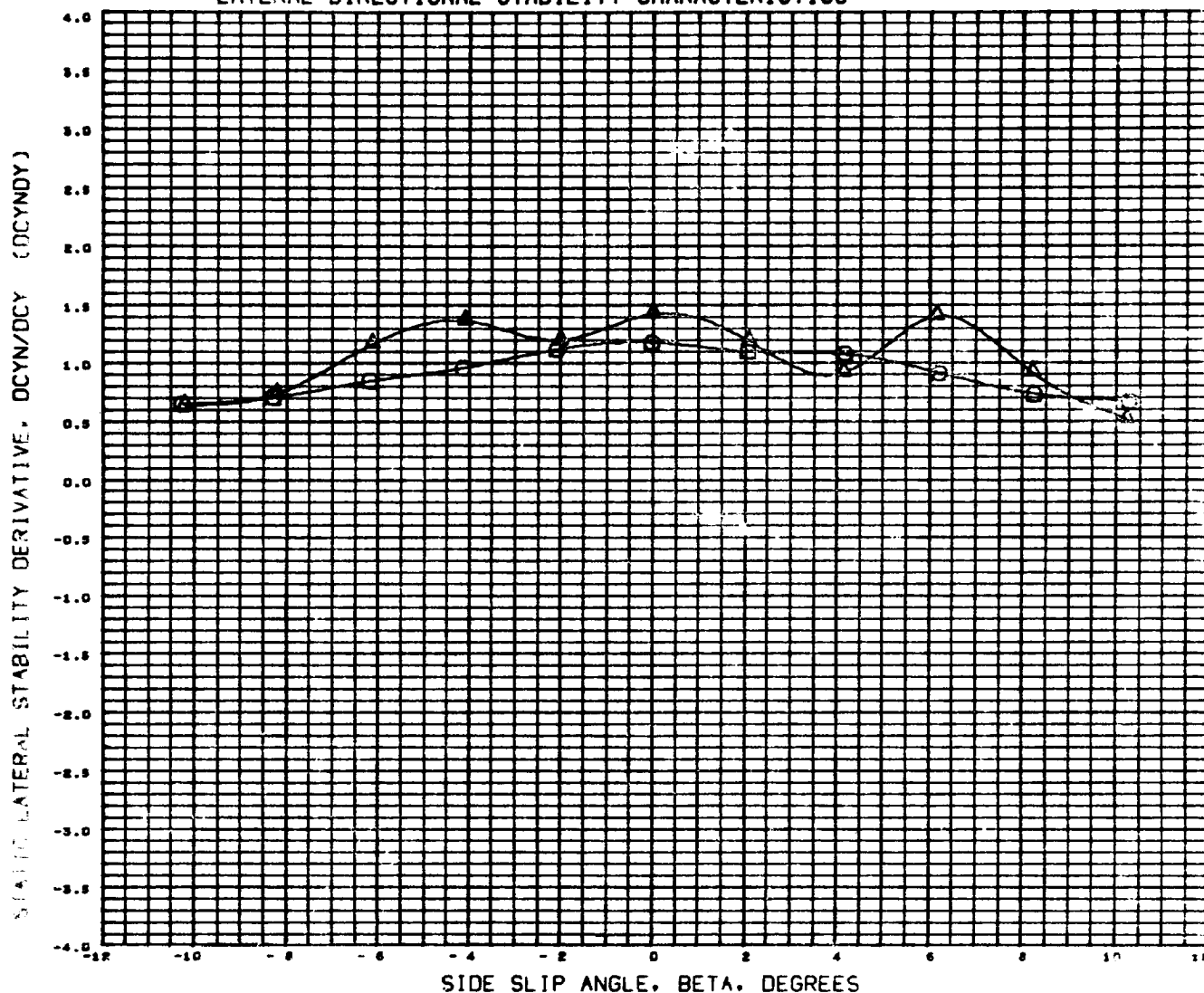
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	M492-HSFC AR11901-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.801

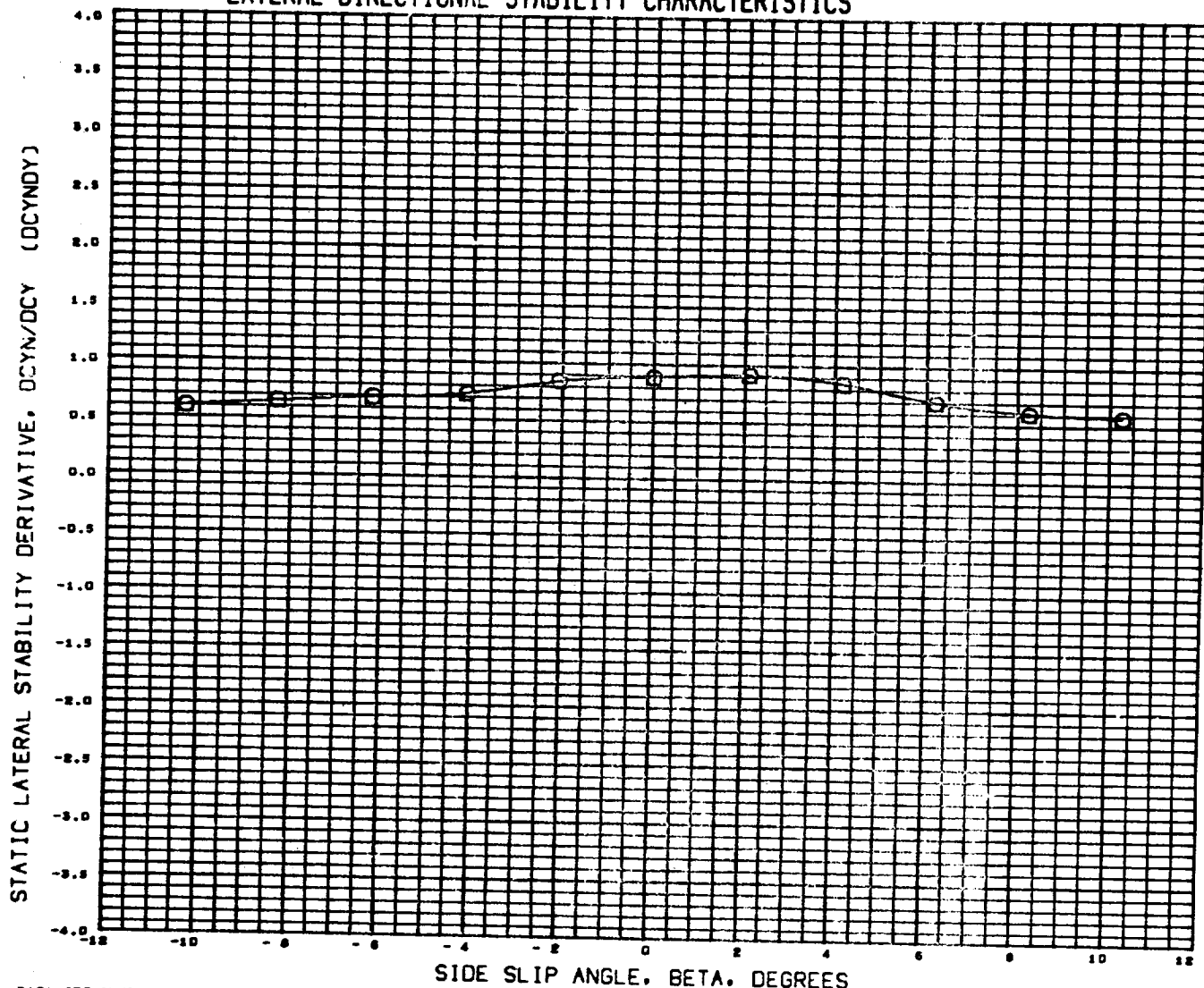
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR11301-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6224 50.1N
(E3404G)	M492-MSFC AR11301-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 1N
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 2.4000 1N
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	ZMRP 0.0000 1N
						SCALE 0.0025

MACH 0.854

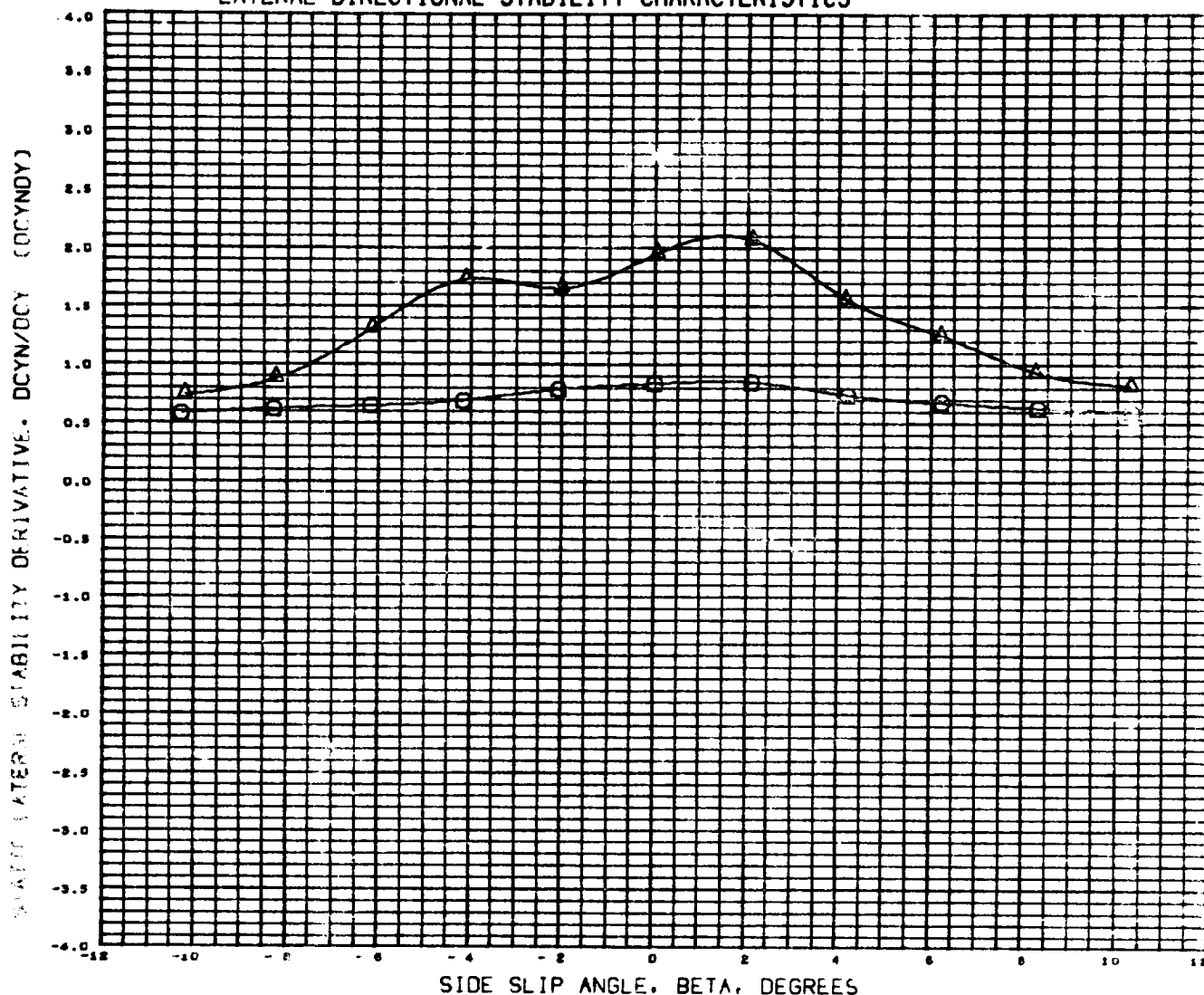
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3404F)	M492-HSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SRUF	4.6225 56. IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.947

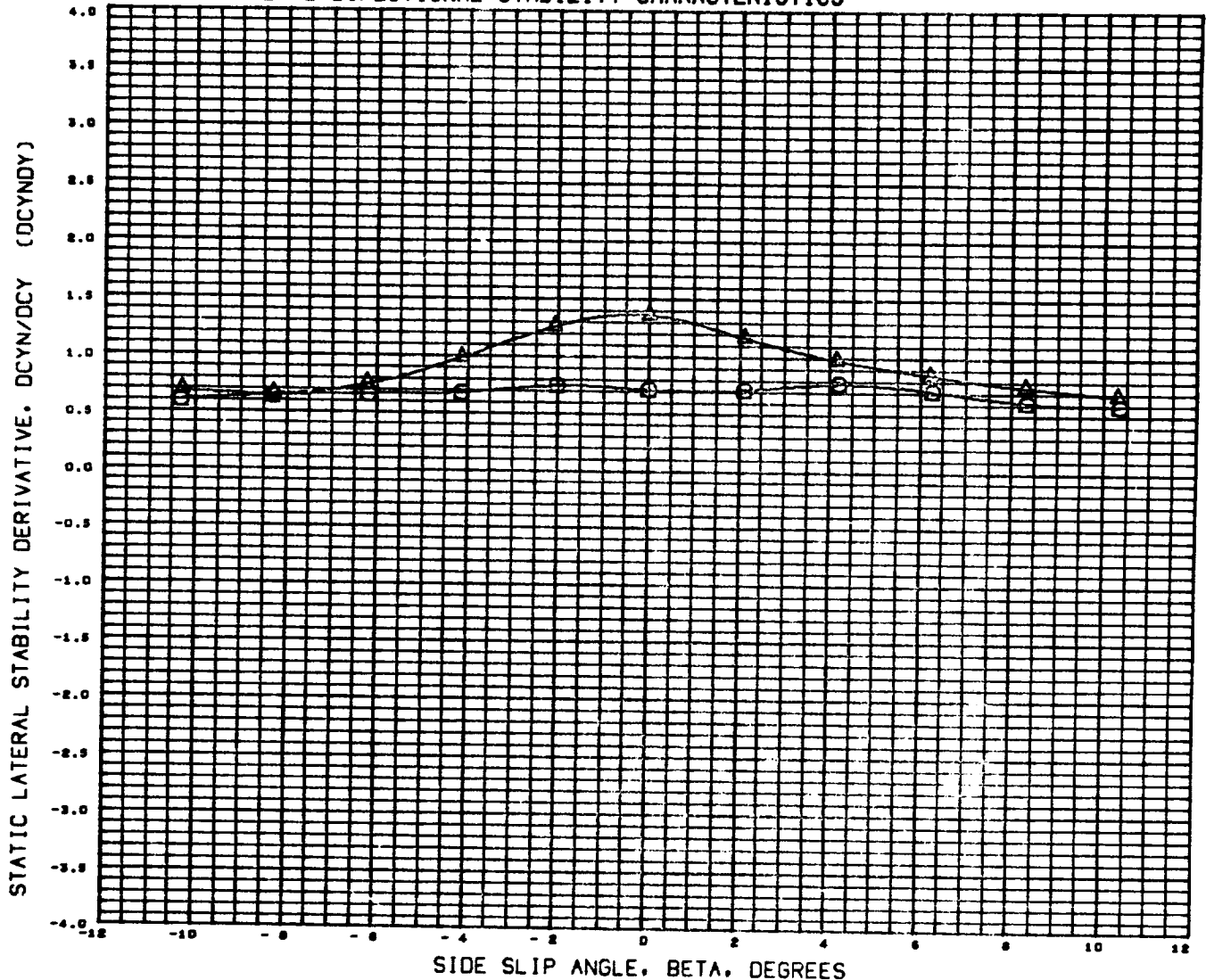
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRCN	REFERENCE INFORMATION
(E3404F)	M492-MSFC AR1381-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.622° 32
(E3404G)	M492-MSFC AR1381-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.300° 32
(E3404H)	M492-MSFC AR1381-1 MODEL B2W6C12	15.500	0.000	0.000	0.000	BREF 4.300° 32
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.400° 32
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.000° 32
						ZMRP 0.000° 32
						SCALE 0.002

MACH 0.95

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

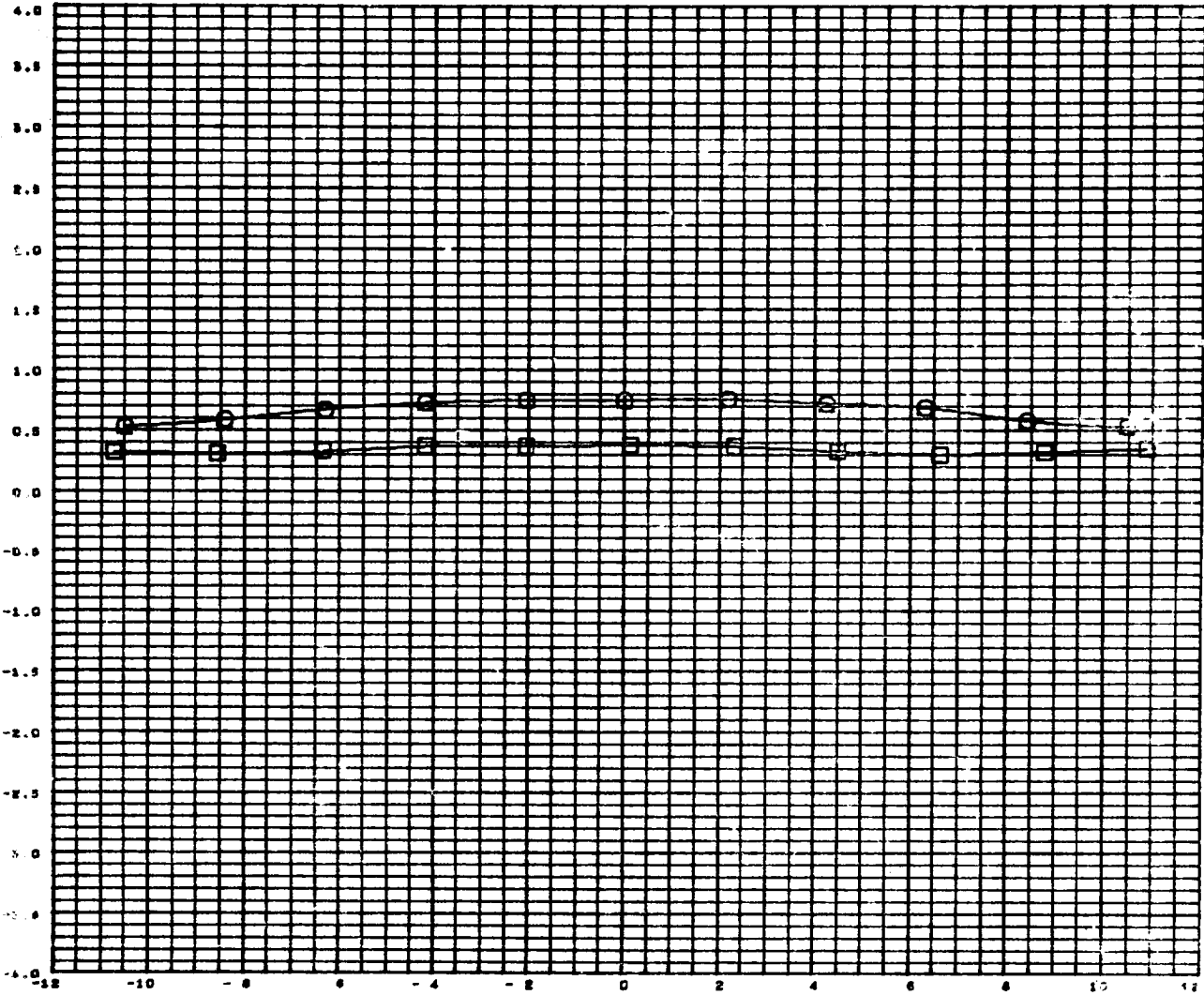


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	M492-HSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6223 50. IN.
(E3404G)	M492-HSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.190

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

STATIC LATERAL STABILITY DERIVATIVE, DCYN/DCY (DCYNDY)

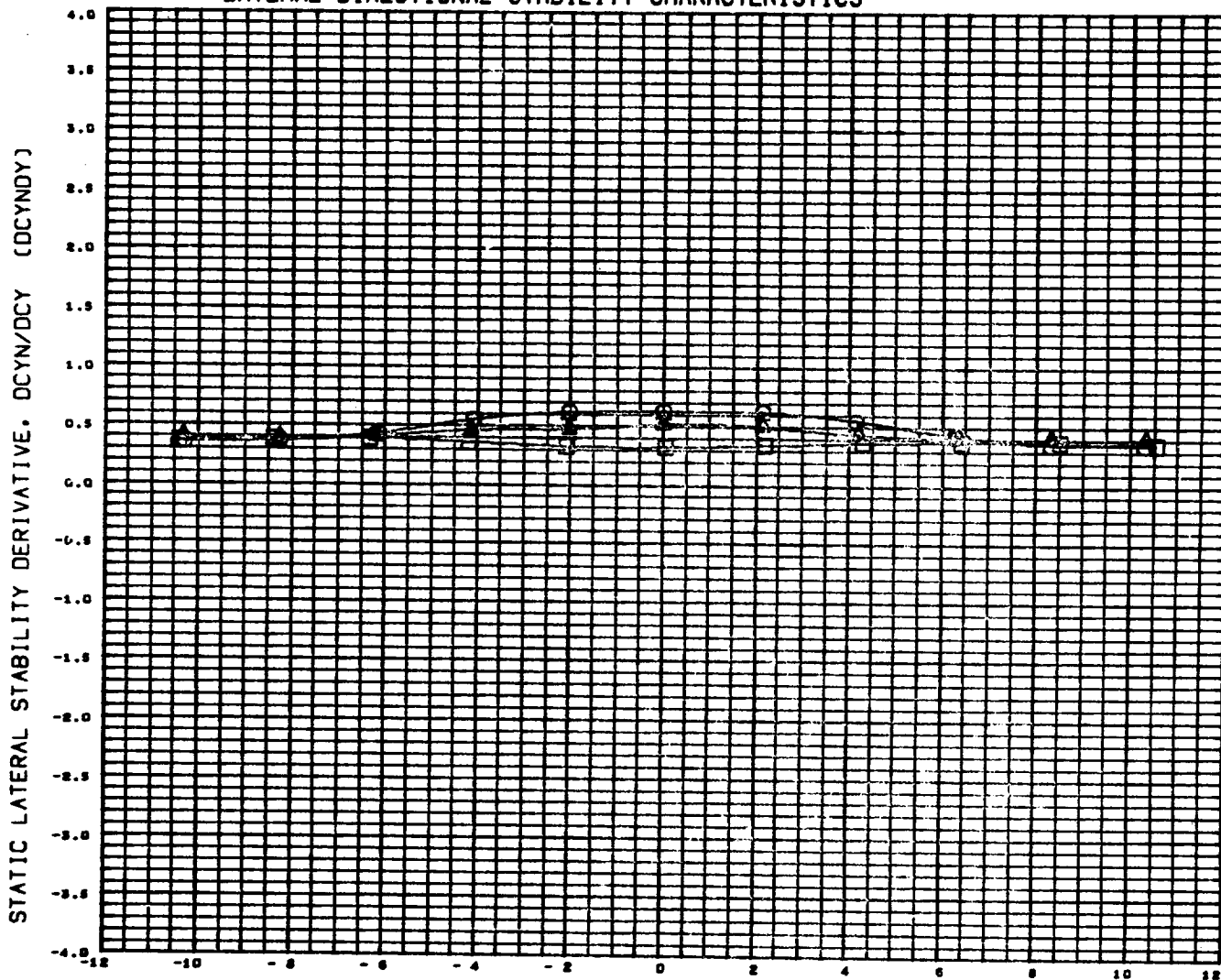


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVON	AILERON	REFERENCE INFORMATION
(E3404F)	M492-M3FC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 50.14.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 1A
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1A
(E3404I)	M492-M3FC AR11981-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XNRP 2.4000 1A
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 1A
						ZNRP 0.0000 1A
						SCALE 0.0025

MACH 1.914

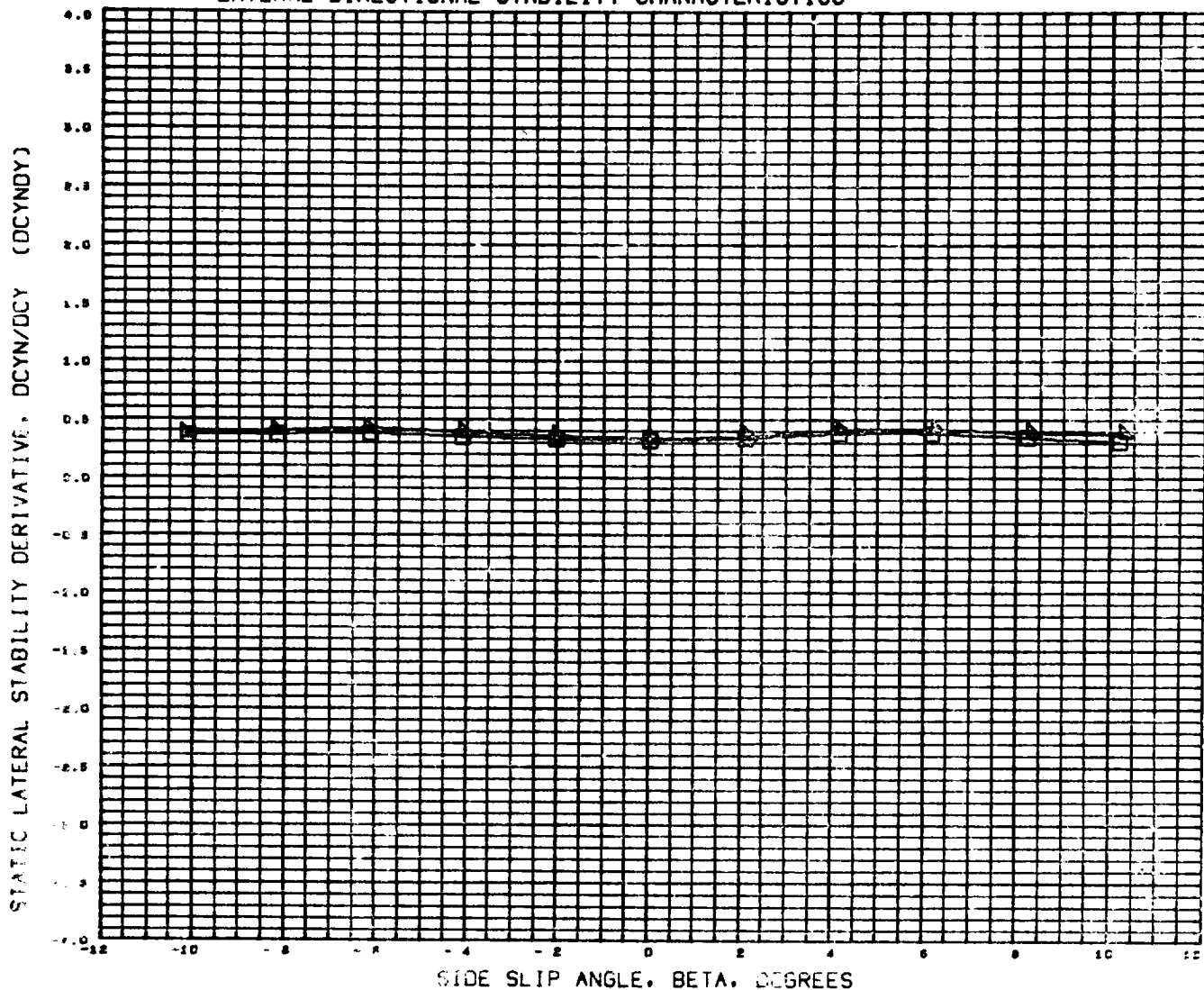
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404F)	N492-MSFC AR11981-1 MODEL B2W6C12	0.000	0.000	0.000	0.000	SREF 4.6225 60 IN.
(E3404G)	N492-MSFC AR11981-1 MODEL B2W6C12	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(F3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3404I)	N492-MSFC AR11981-1 MODEL B2W6C12	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3404J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.460

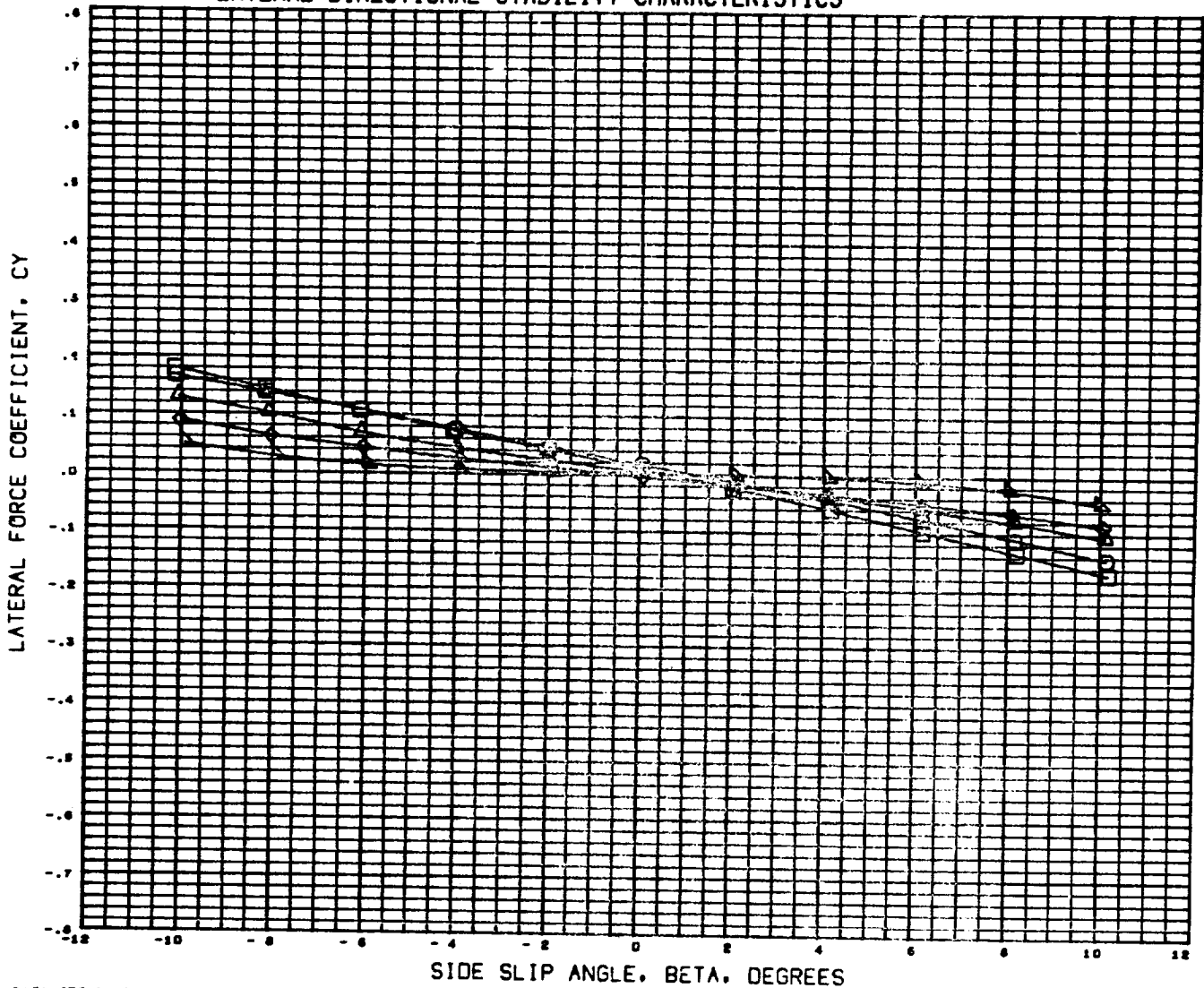
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	E EYER	AILRON	REFERENCE INFORMATION
(E3404F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 1.6425 44-IN.
(E3404G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 1.3000 1
(E3404H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.5000 1
(E3404I)	MP92-MSFL AR11981-1 MODEL B2W6C12	34.000	0.000	1.000	0.000	XMRP 4.0000 1
(E3404J)	MP92-MSFL AR11981-1 MODEL B2W6C12	51.000	0.000	0.000	0.000	YMRP 0.0000 1
						ZMRP 0.0000 1
						SCALE 1.0025

WALN 1.0025

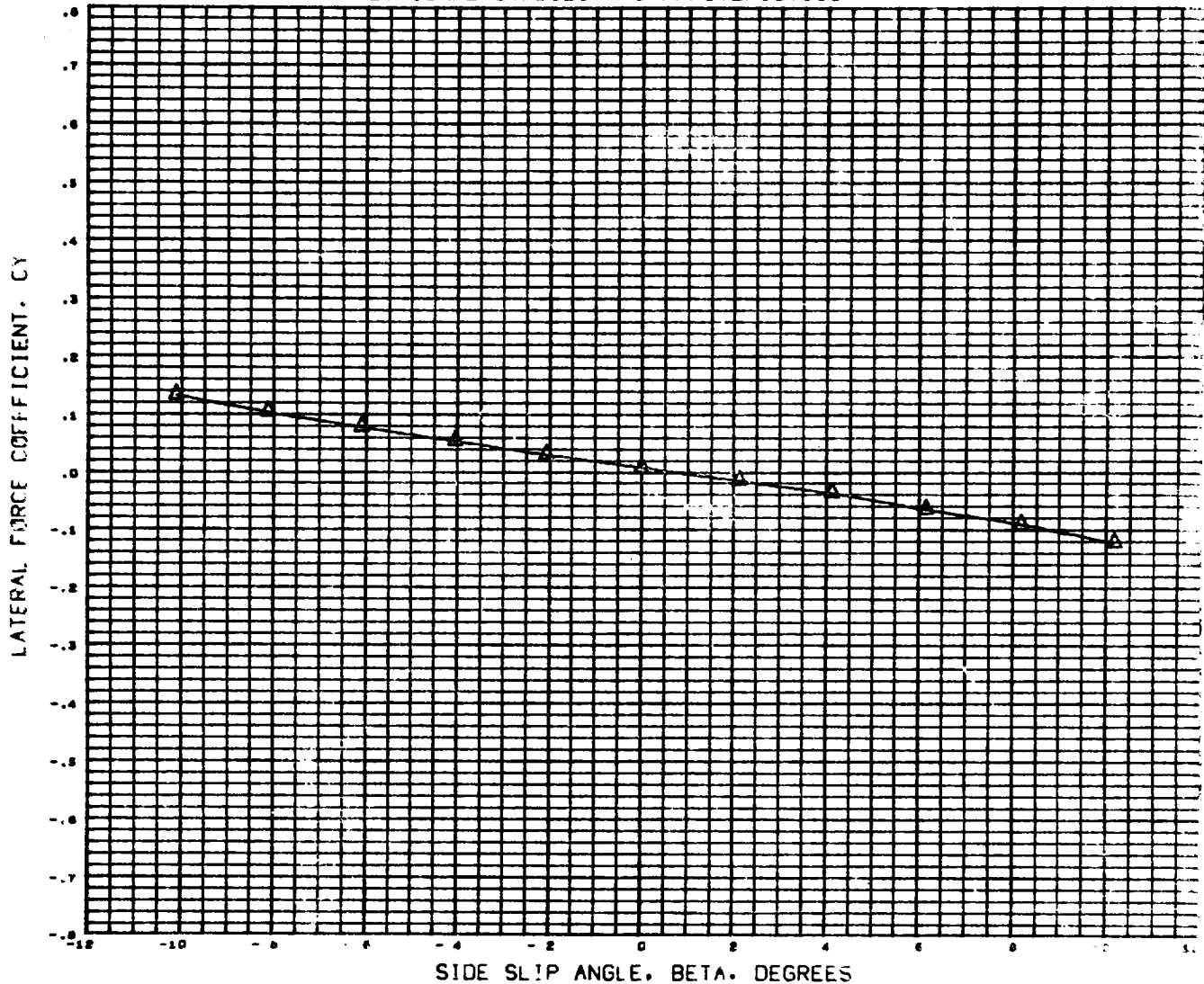
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6223 88. IN.
(E3405G)	N492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	N492-MSFC AR11981-1 MODEL 82W6C12V2	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	N492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	N492-MSFC AR11981-1 MODEL 82W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.604

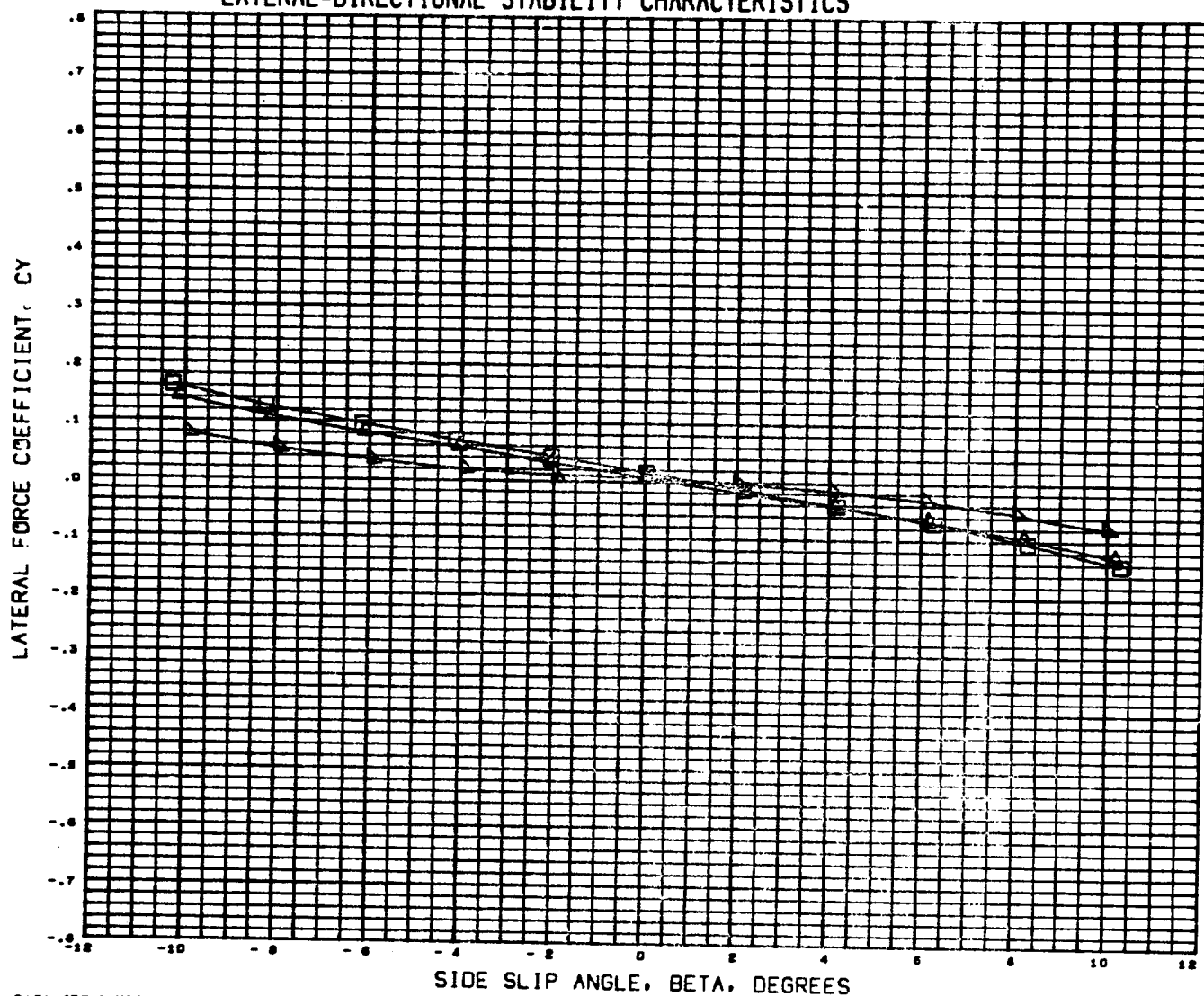
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3404P)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6200 50.00
(E3405P)	M492-NSFC ARI 981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 10.00
(E3406P)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3000 10.00
(E3407P)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 10.00
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 10.00
						ZMRP 0.0000 10.00
						SCALE 0.0000

NAUT 0.700

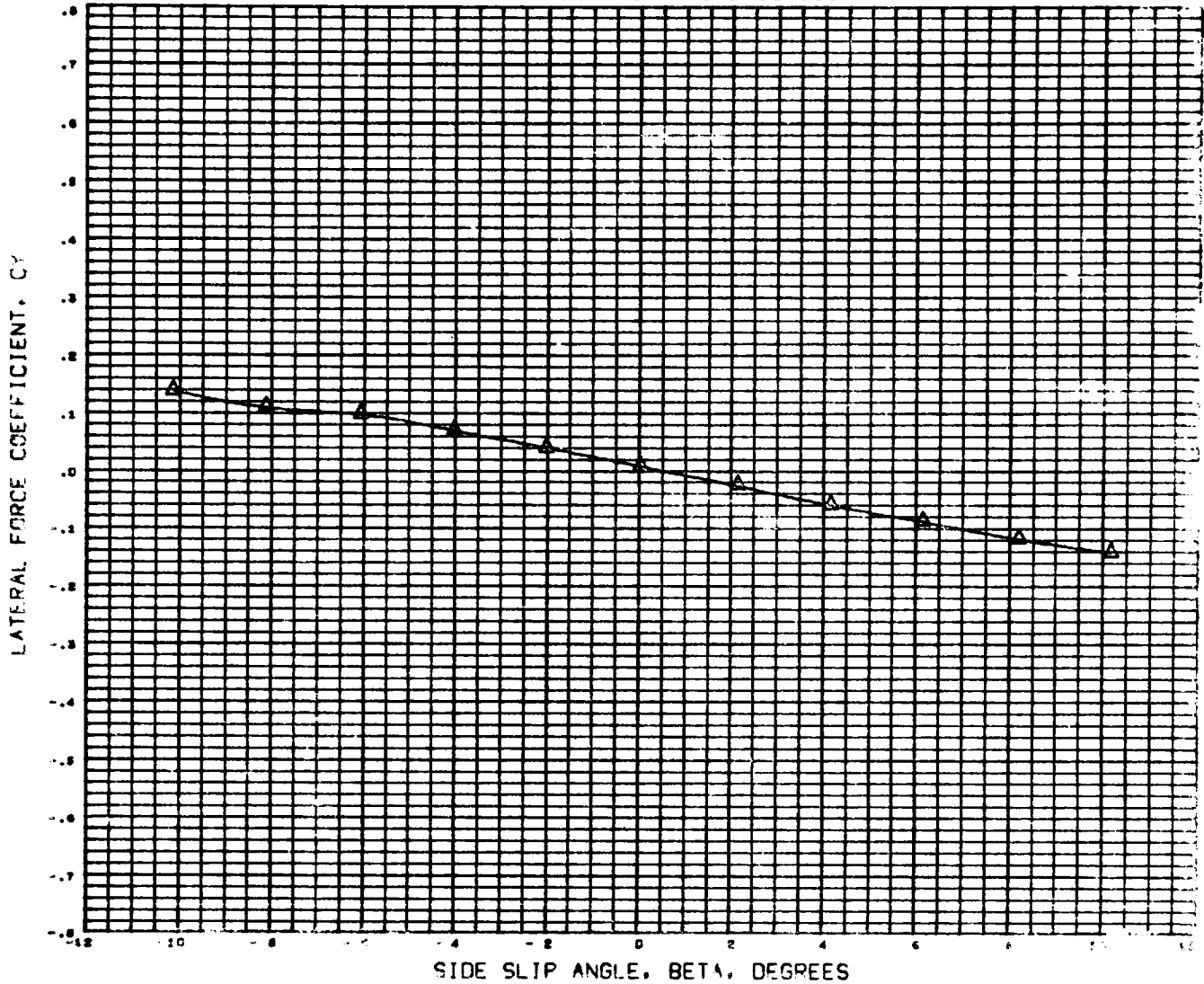
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRGN	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3405G)	M492-M3FC AR11901-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-M3FC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XHRP 2.4000 IN.
(E3407H)	M492-M3FC AR11901-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0029

MACH 0.898

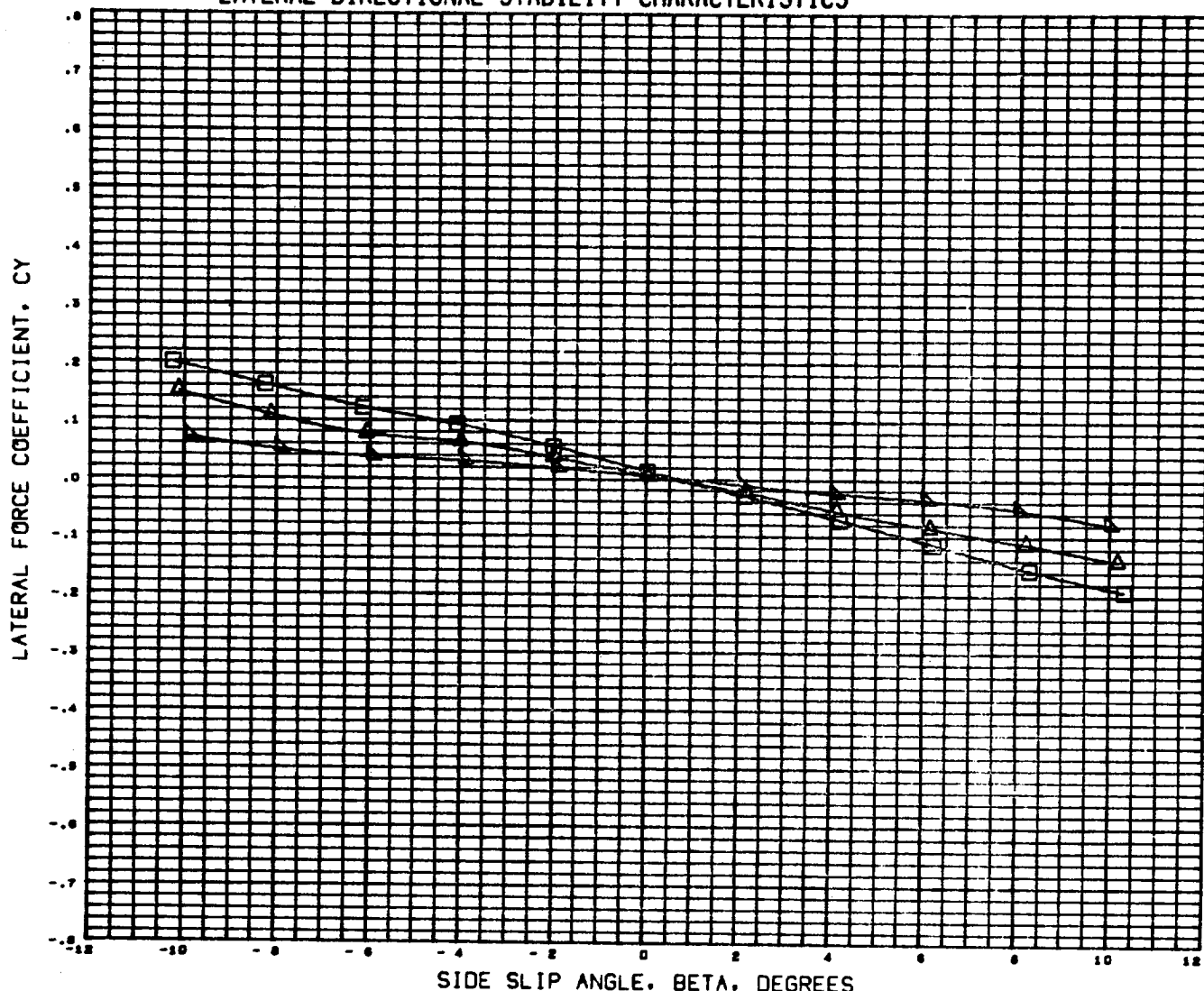
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.682- 10 75
(E3405G)	M492-MSFC AR15981-1 MODEL B2WSC12V2	10.000	0.000	0.000	0.000	LREF 4.3000 10
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 10
(E3405I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	YNRP 2.4000 10
(E3405J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YNRP 0.0000 10
						ZNRP 0.0000 10
						SCALE 0.0000 10

NACI 1 95

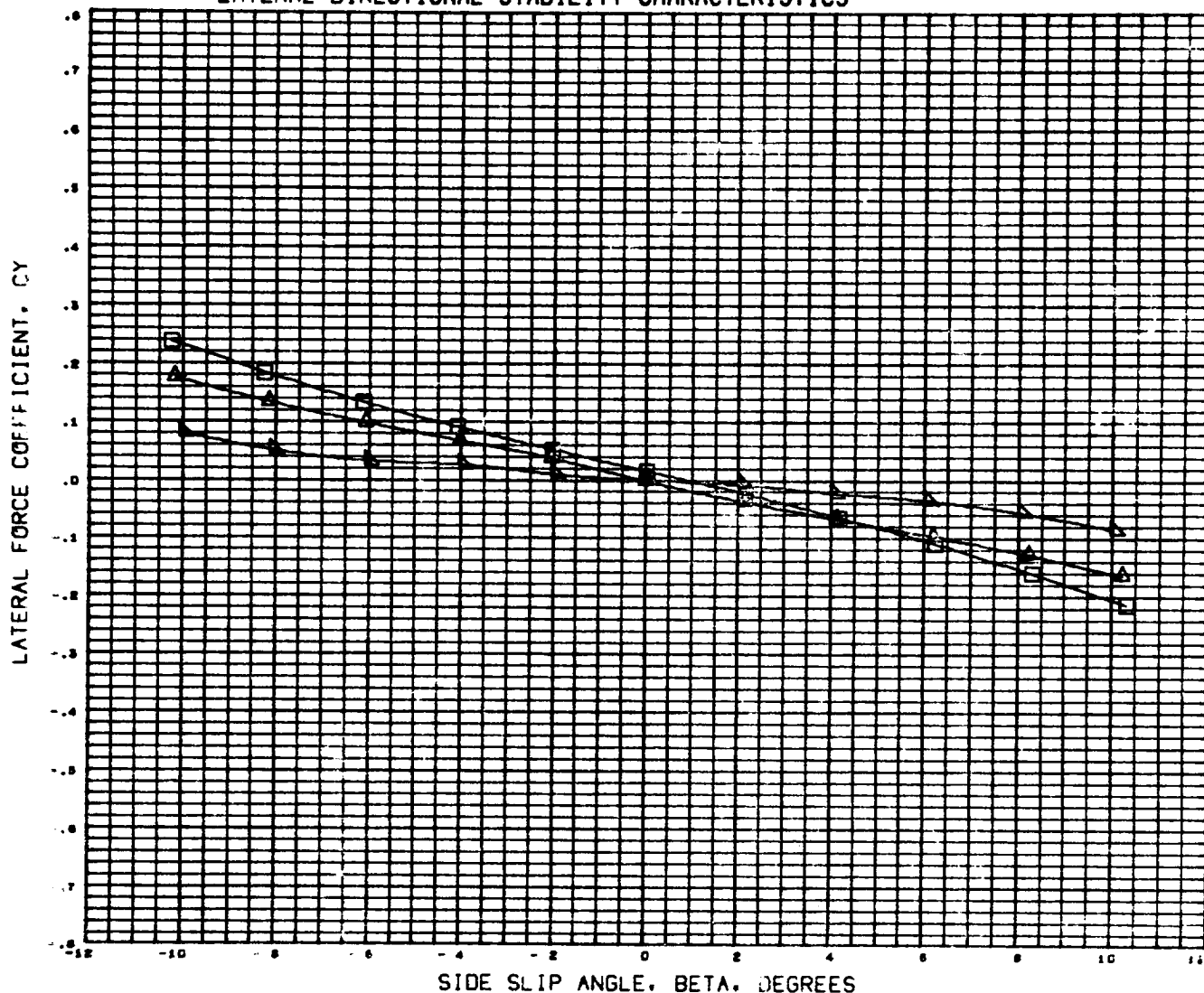
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 38. IN.
(E3403G)	M492-NBFC AR11991-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	SREF 4.3000 IN.
(E3403I)	M492-NBFC AR11991-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3403J)	M492-NBFC AR11991-1 MODEL 82W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

NACH 1.001

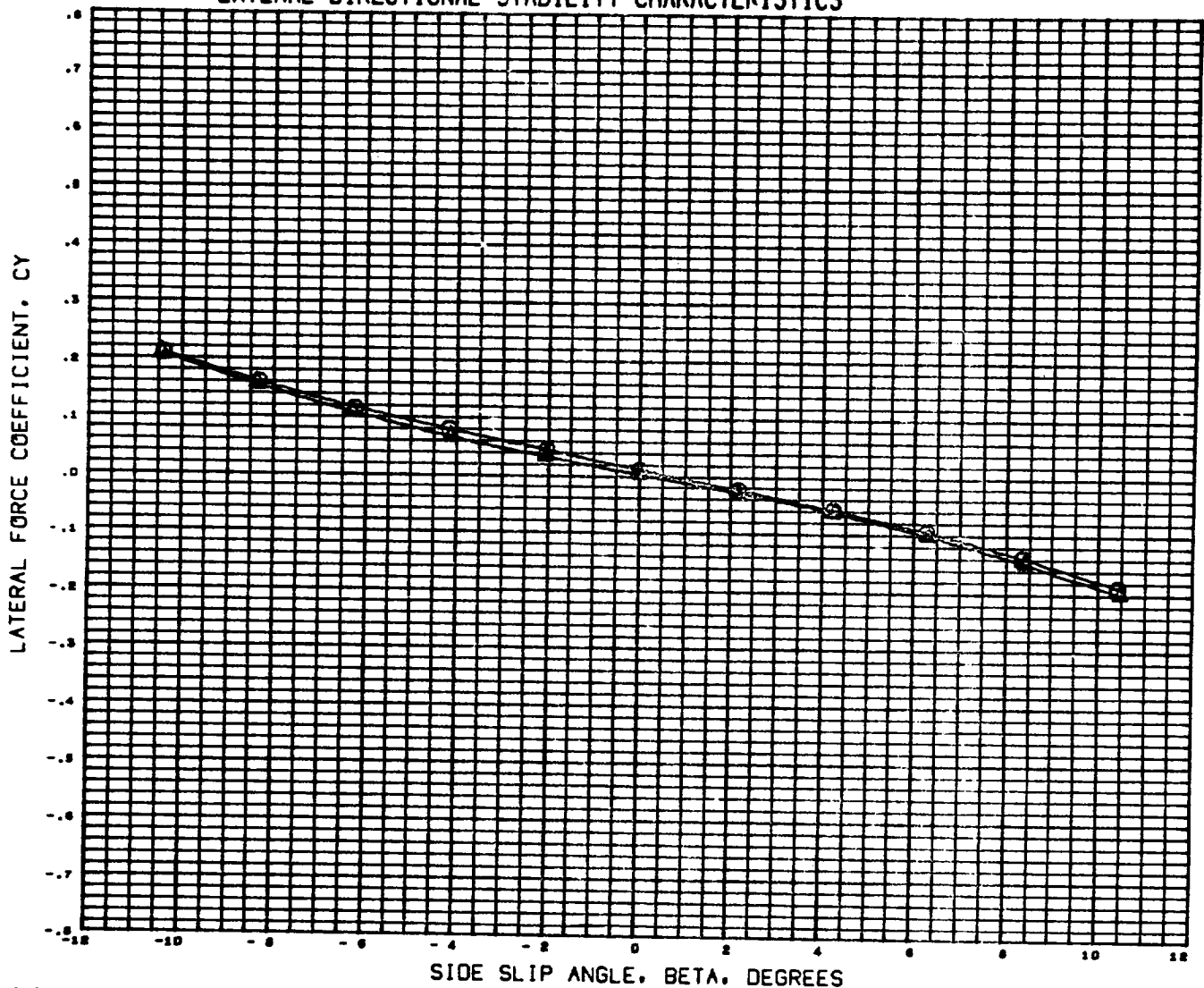
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
E3405F	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 59 IN.
E3405G	H492-HSFC AR1190-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
E3405H	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
E3407F	H492-HSFC AR1190-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XNRP	2.4000 IN.
E3407H	H492-HSFC AR1190-1 MODEL 82W6C12V2	16.000	20.000	0.000	0.000	YNRP	0.0000 IN.
						ZNRP	0.0000 IN.
						SCALE	0.002*

MACH 1.197

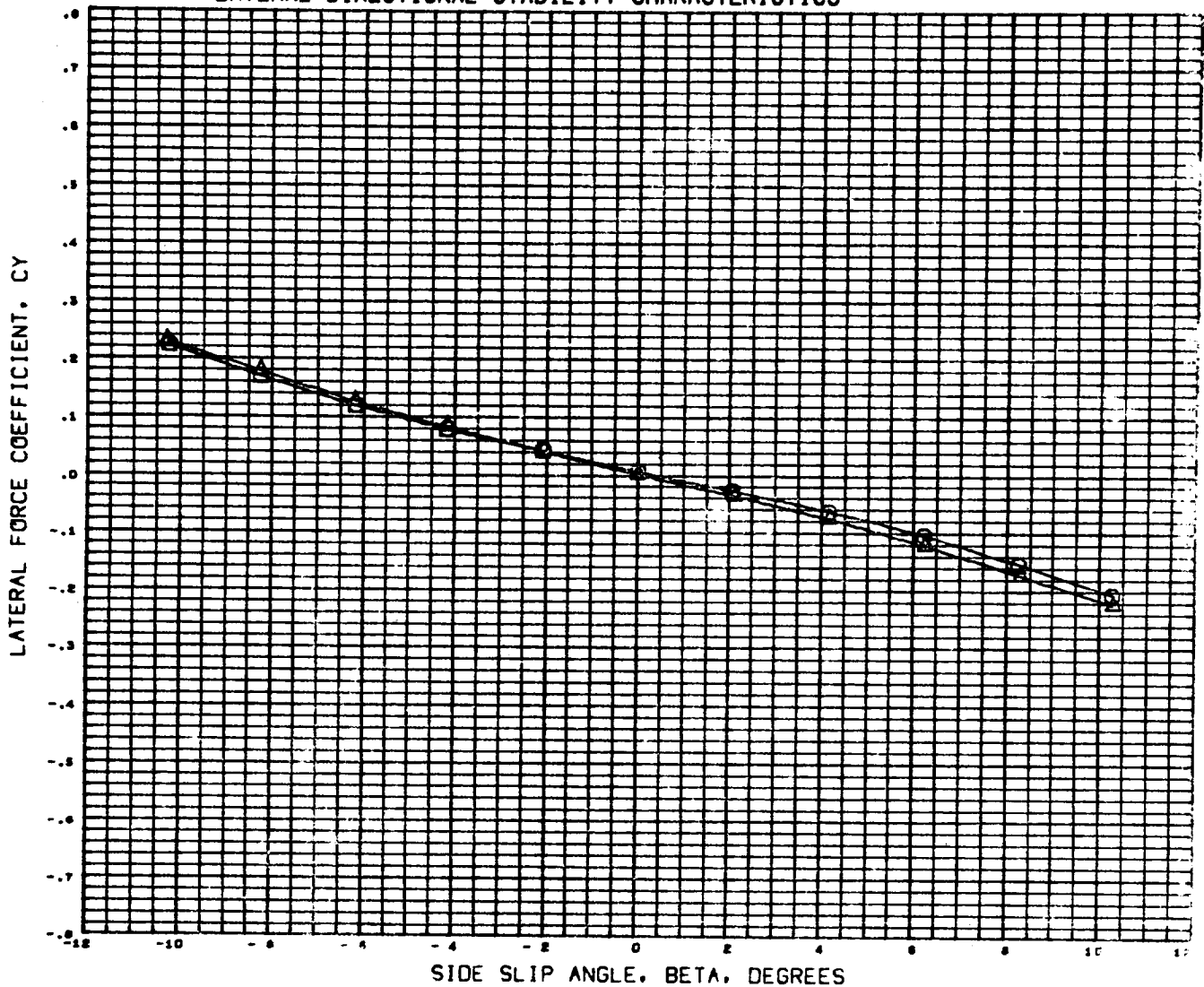
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N492-MSFC AR11981-1 MODEL S2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 30. IN.
(E3405G)	N492-MSFC AR11981-1 MODEL S2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.953

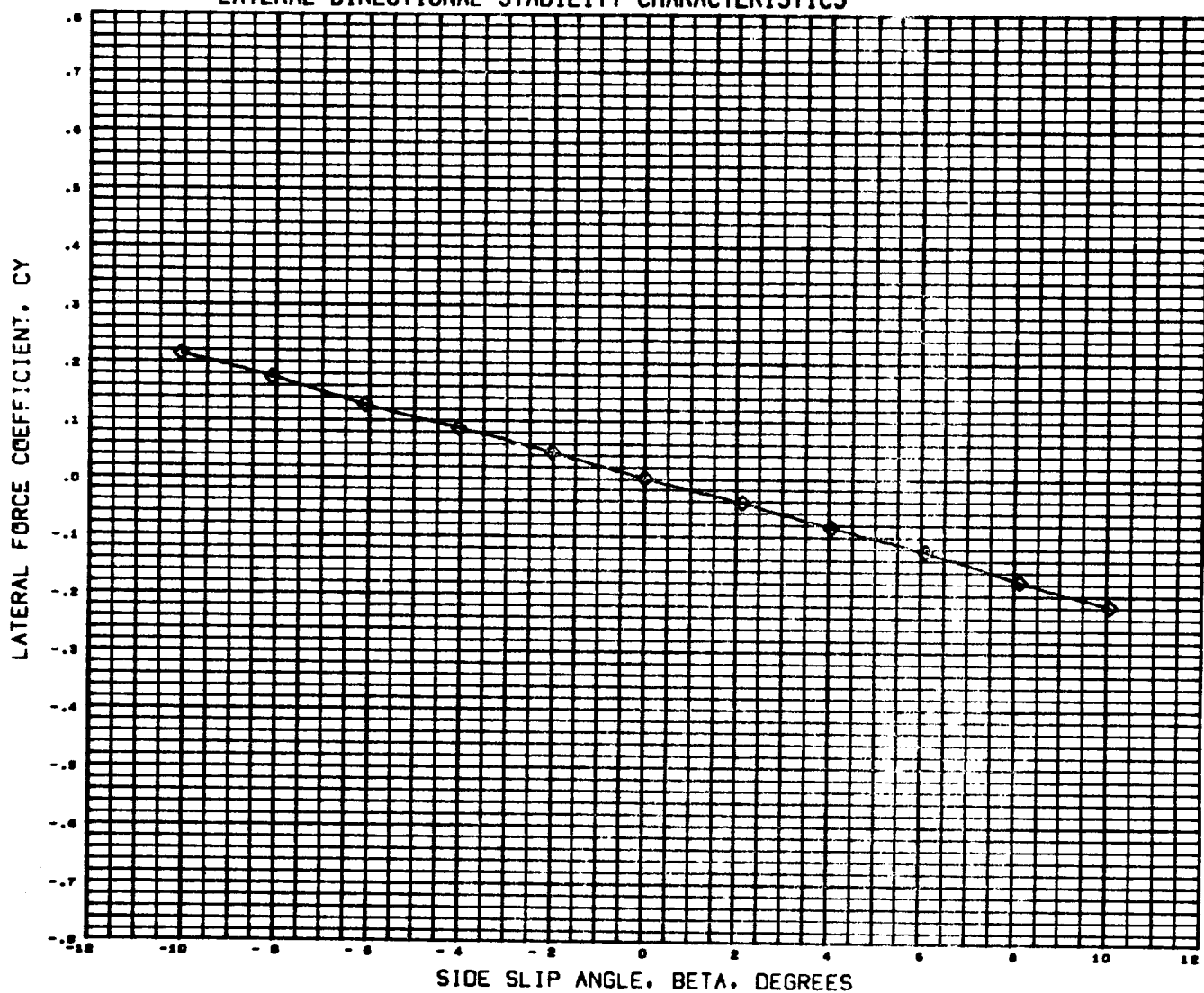
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	M492-HSFC AR1101-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 58.11
(E3403G)	M492-HSFC AR1101-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3001 1A
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 1A
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 1A
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 1A
						ZMRP 0.0000 1A
						SCALE 0.0025

MACH 5.42

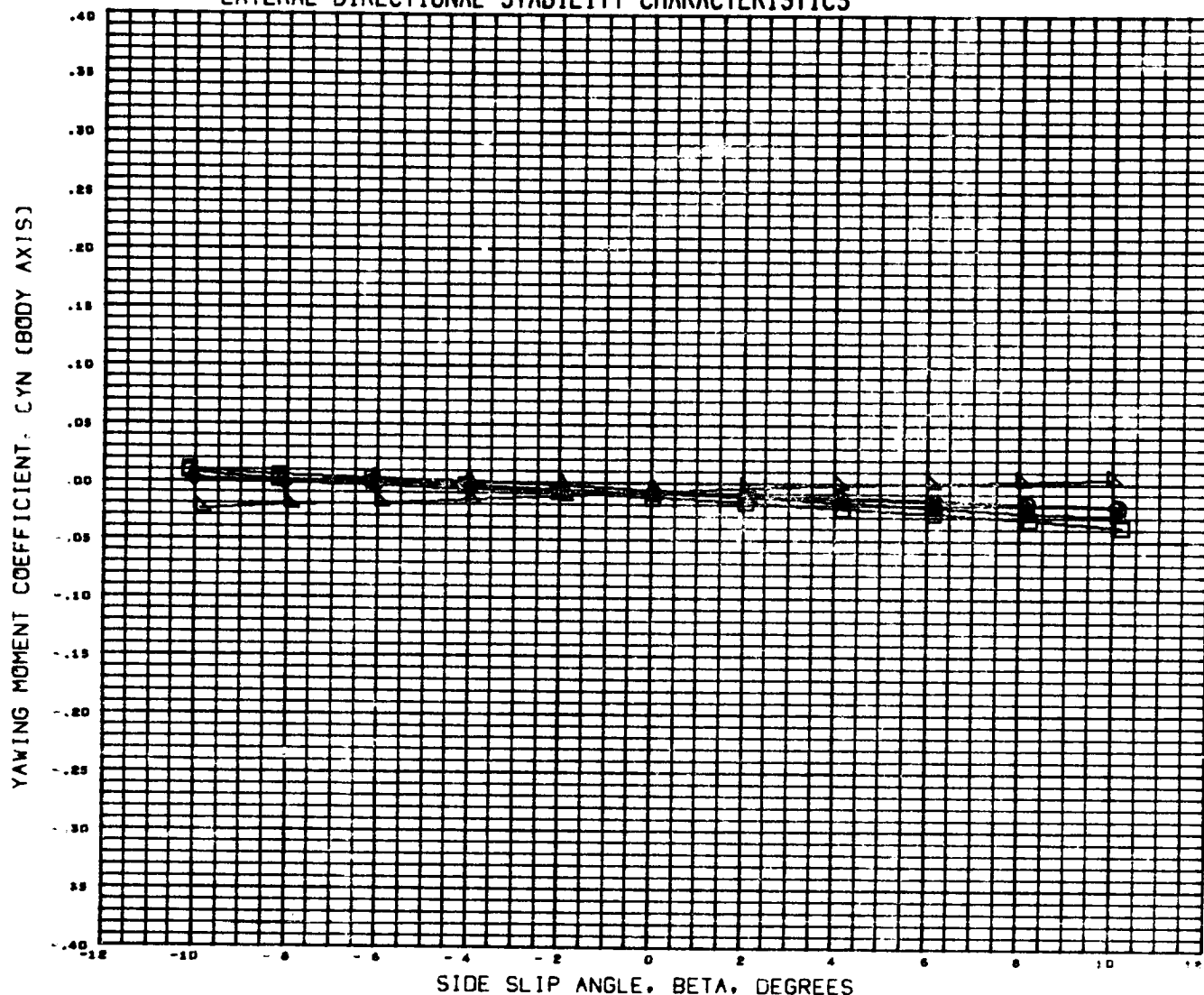
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3409F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3409G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3409H)	W492-NSFC AR11991-1 MODEL BW6C12V2	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 4.959

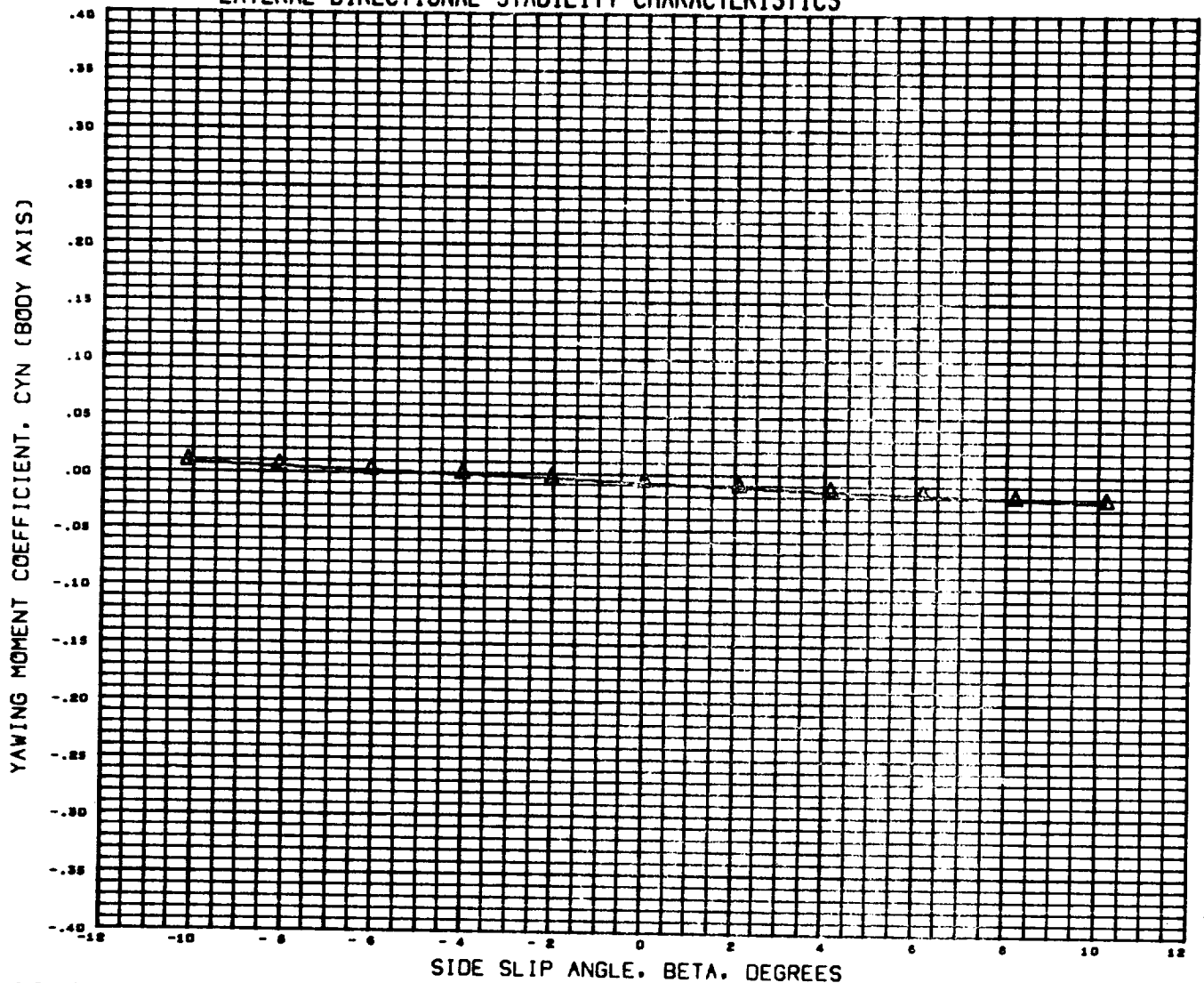
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	N492-HSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 59.7N.
(E3403G)	N492-HSFC AR11981-2 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 100
(E3403H)	N492-HSFC AR11981-3 MODEL B2W6C12V2	15.500	0.000	0.000	0.000	BREF 4.3000 100
(E3407F)	N492-HSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	YMRP 2.4000 100
(E3407H)	N492-HSFC AR11981-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	ZMRP 0.0000 100
						SCALE 0.0025 100

NACH 5.60x

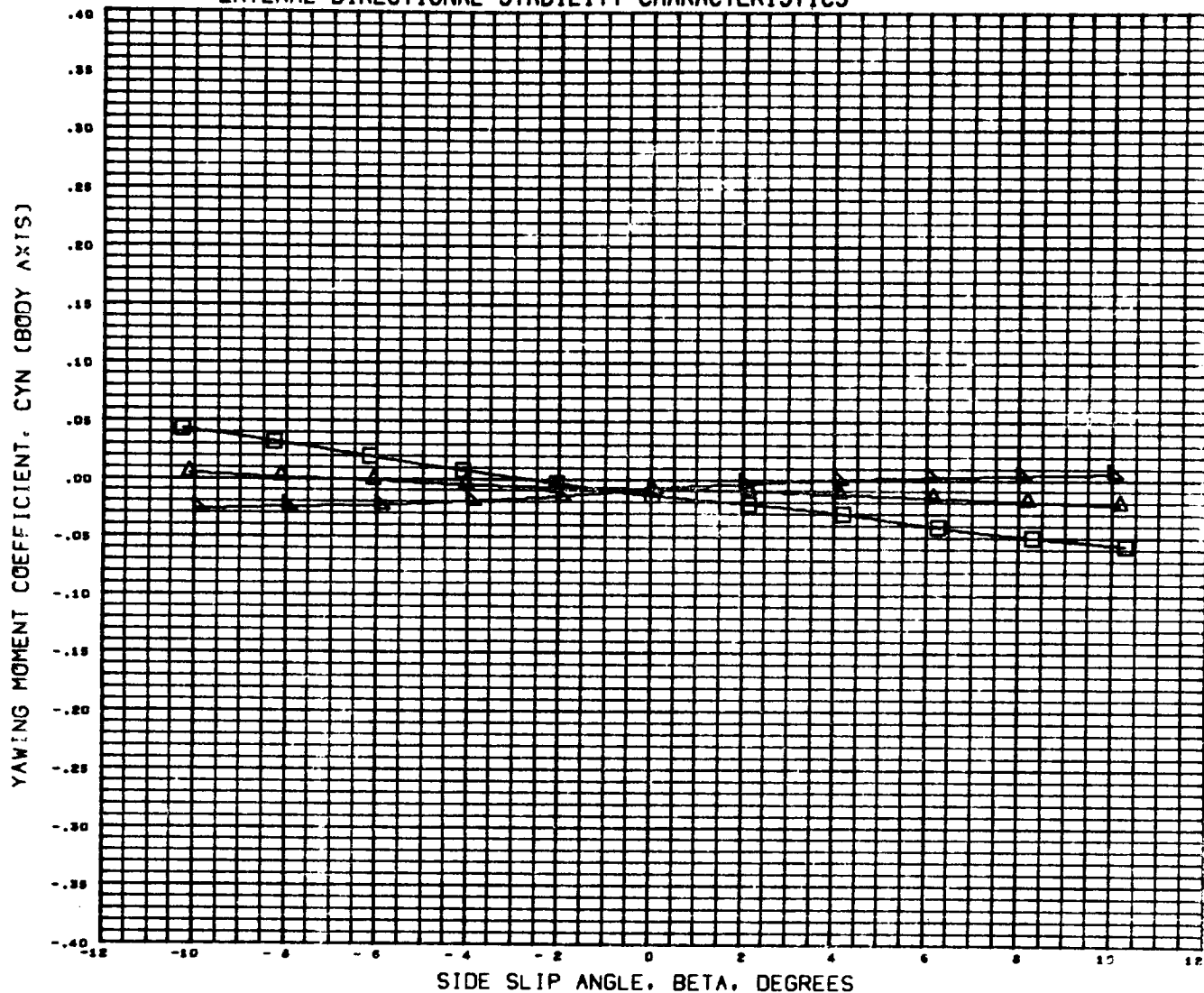
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 30.IN.
(E3405G)	M492-MSFC AR11981-1 MODEL 82M6C1EV2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XHRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YHRP	0.0000 IN.
						ZHRP	0.0000 IN.
						SCALE	0.0025

MACH 0.796

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

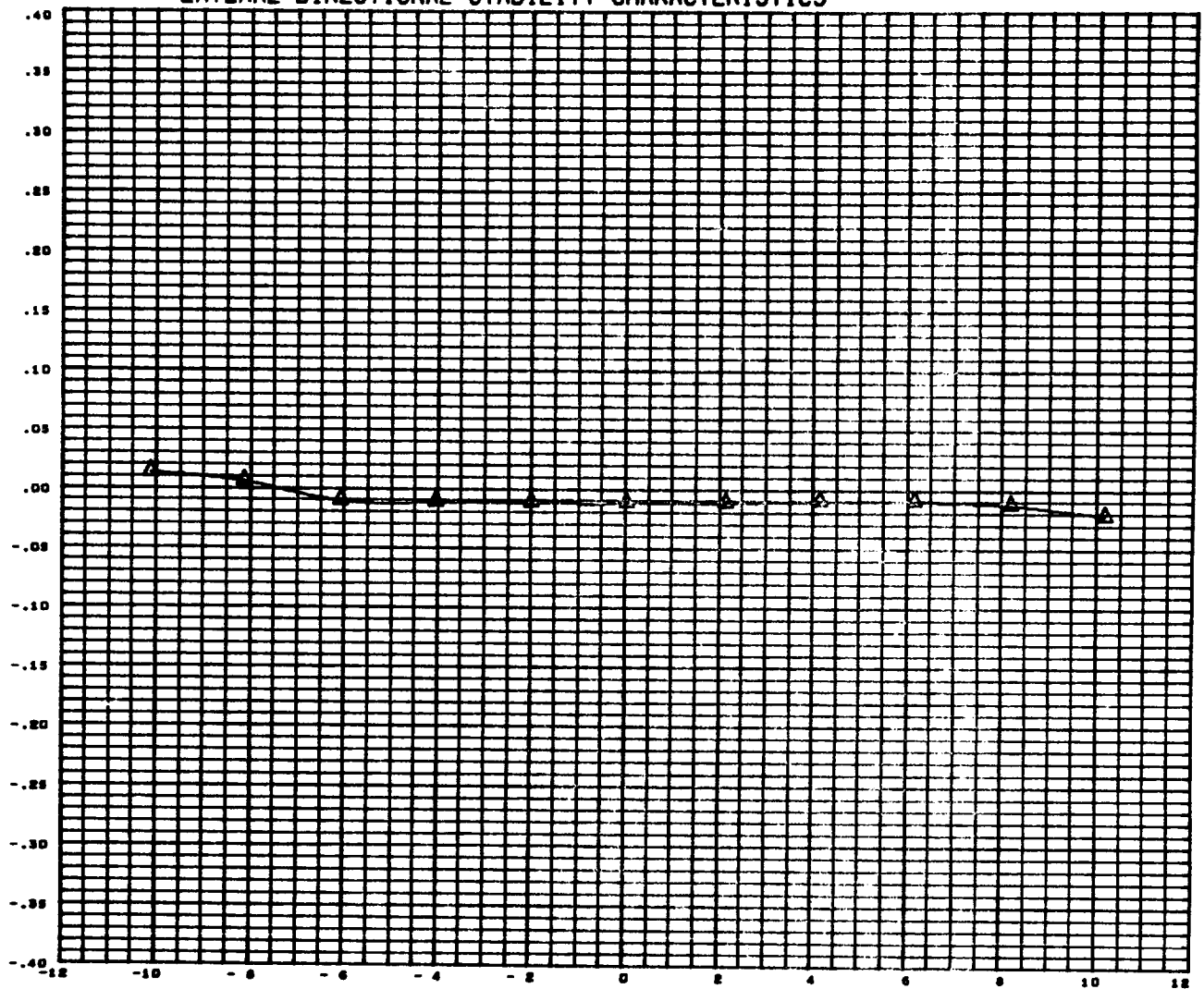


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.622° 38.1N
(E3405G)	M492-M5FC AR11581-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.300° 1N
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.300° 1N
(E3407F)	M492-M5FC AR11581-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.400° 1N
(E3407H)	M492-M31L AR11581-1 MODEL 82W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.000° 1N
						ZMRP 0.000° 1N
						SCALE 0.002°

MACH 0.85

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

YAWING MOMENT COEFFICIENT, CYN (BODY AXIS)

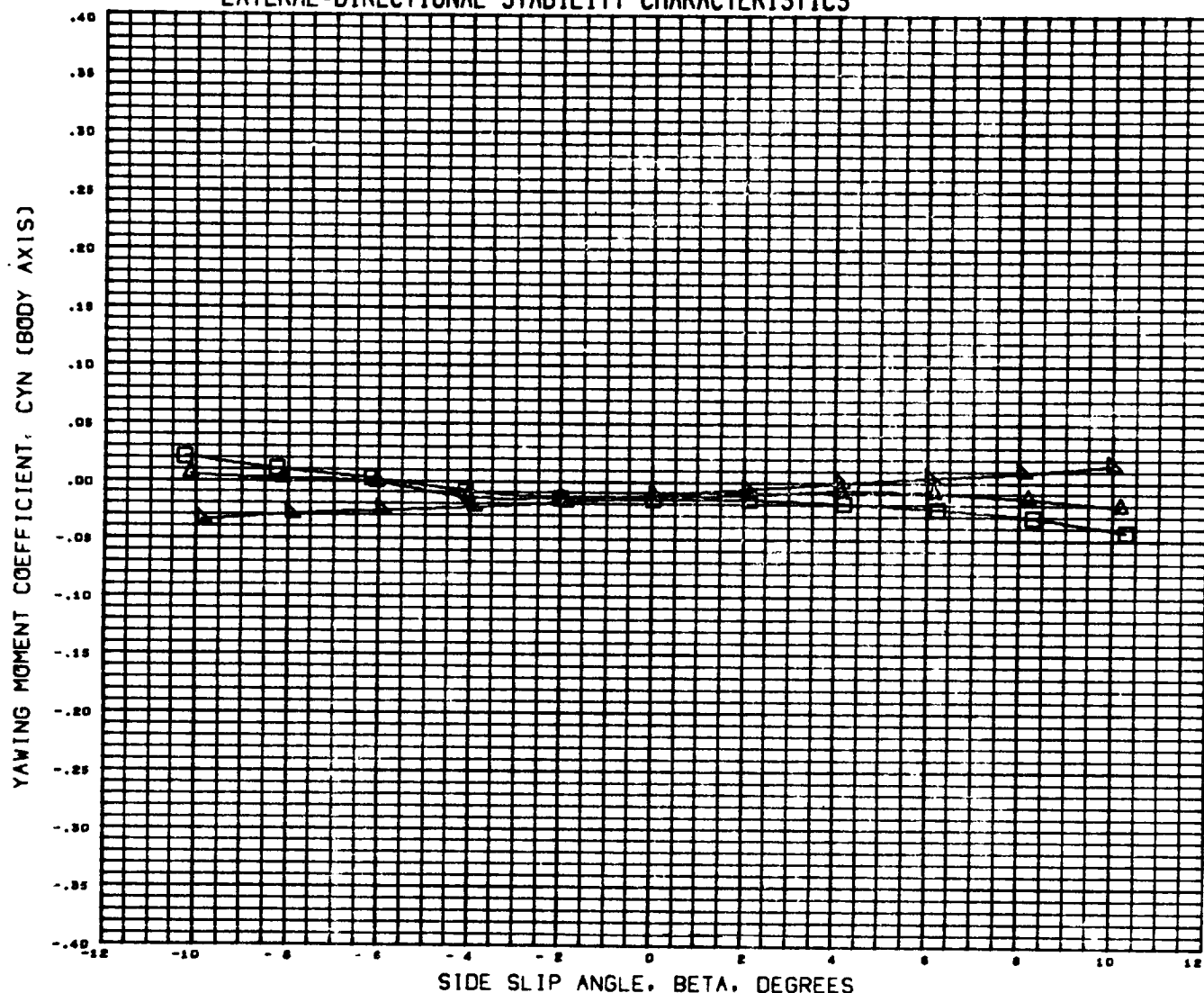


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6285 80.IN.
(E3405G)	M492-MSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.951

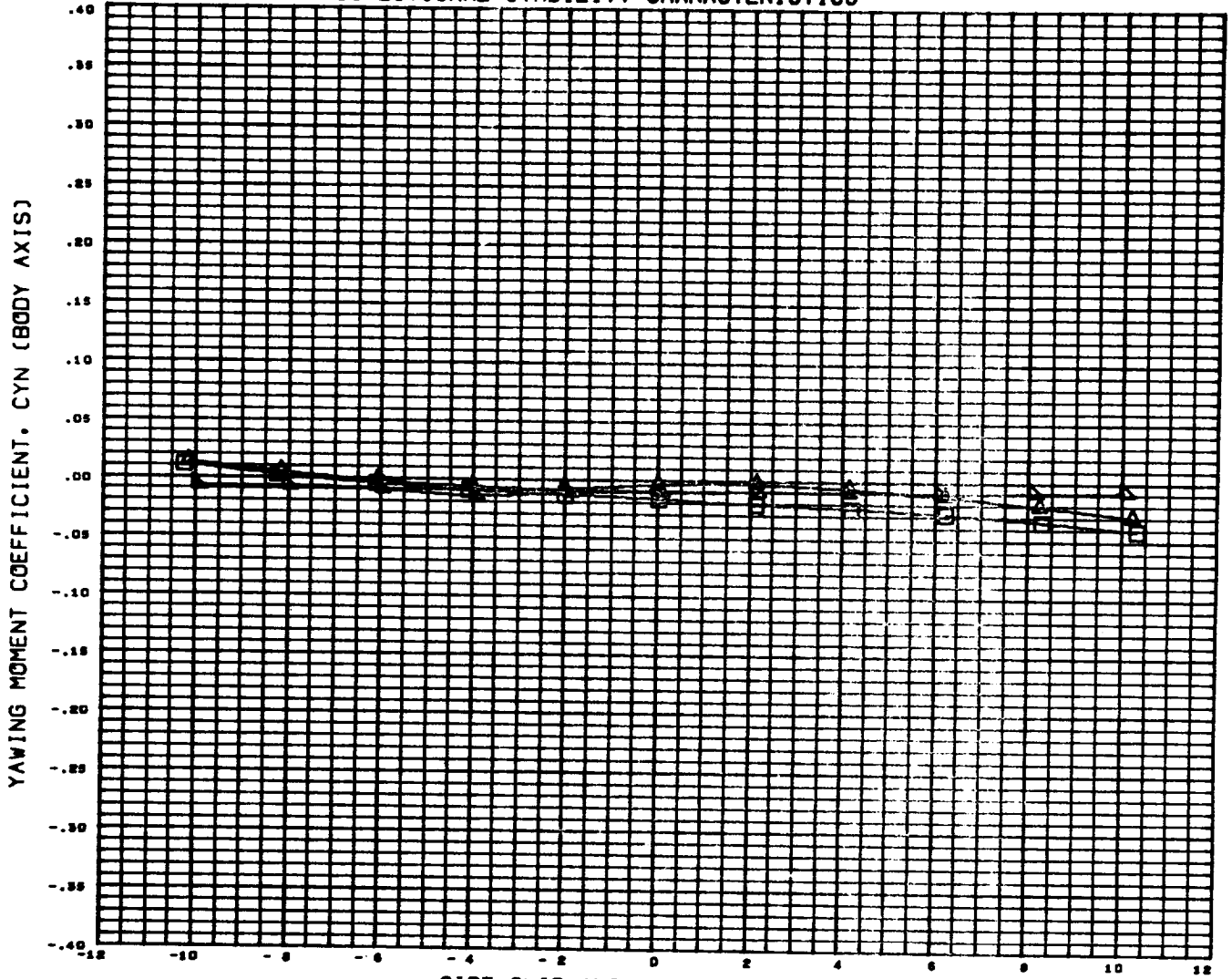
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 4.6225 30. IN.
(E3403G)	M492-HSFC AR119: I-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-HSFC AR119: I-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	YNRP 2.4000 IN.
(E3407H)	M492-HSFC AR119: I-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YNRP 0.0000 IN.
						SCALE 0.0025 IN.

MACH 1.00

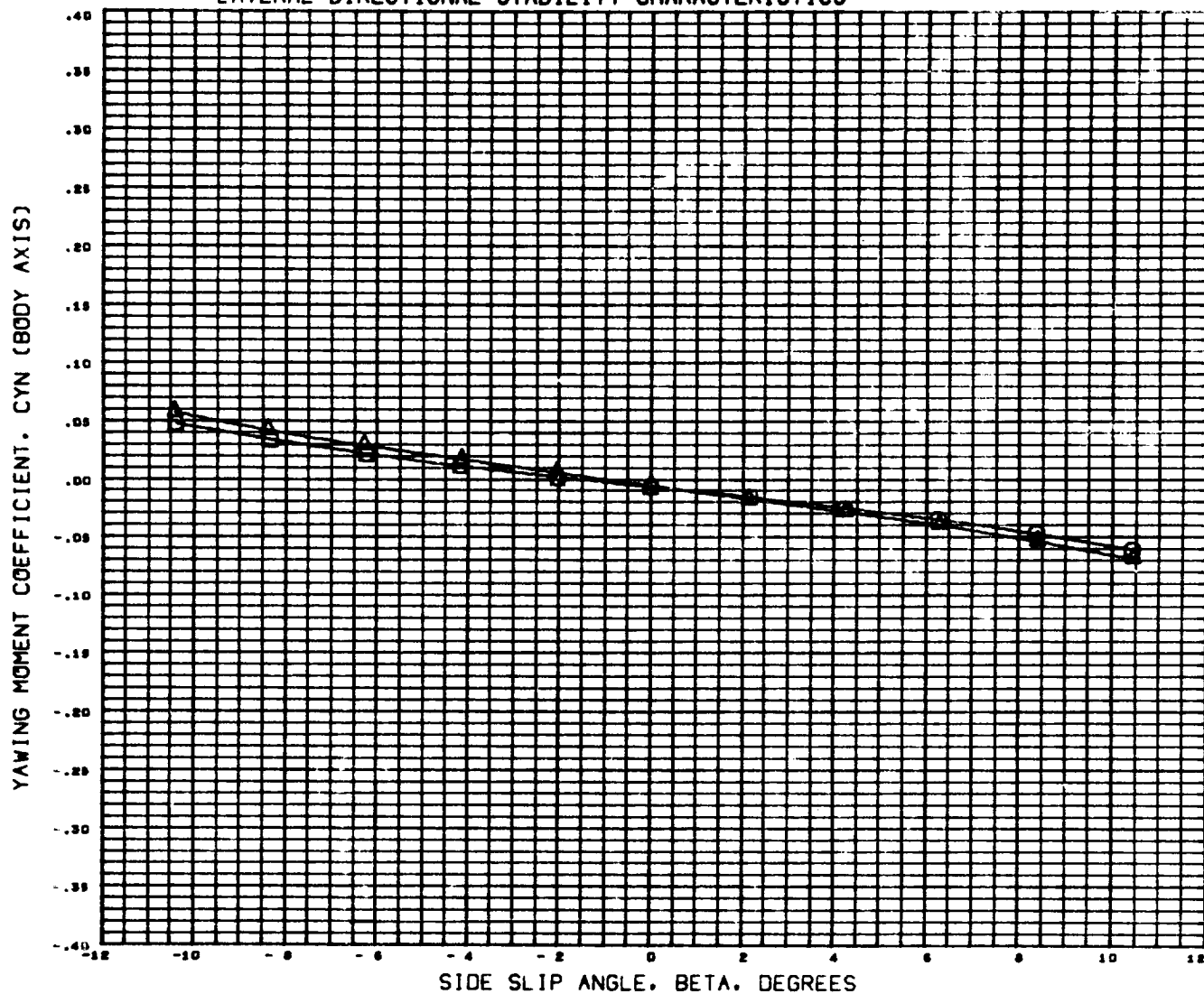
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3405G)	N492-NSFC AR11961-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	N492-NSFC AR11961-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	N492-NSFC AR11961-1 MODEL 82W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.197

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

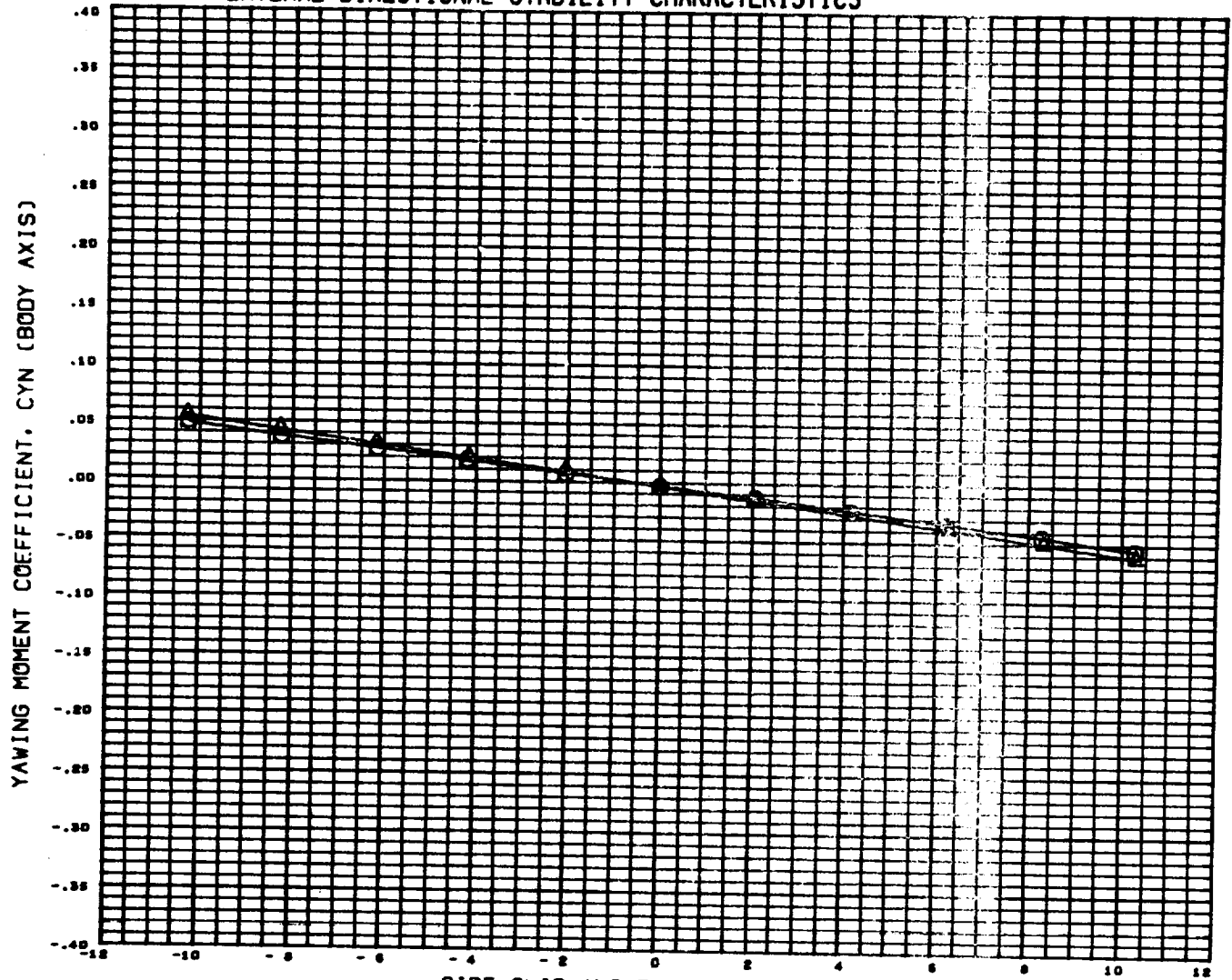


DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	AR1198-1	M492-NSFC AR1198-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 50 IN.
(E3405G)		M492-NSFC AR1198-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3405I)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3405J)		DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH

0.25

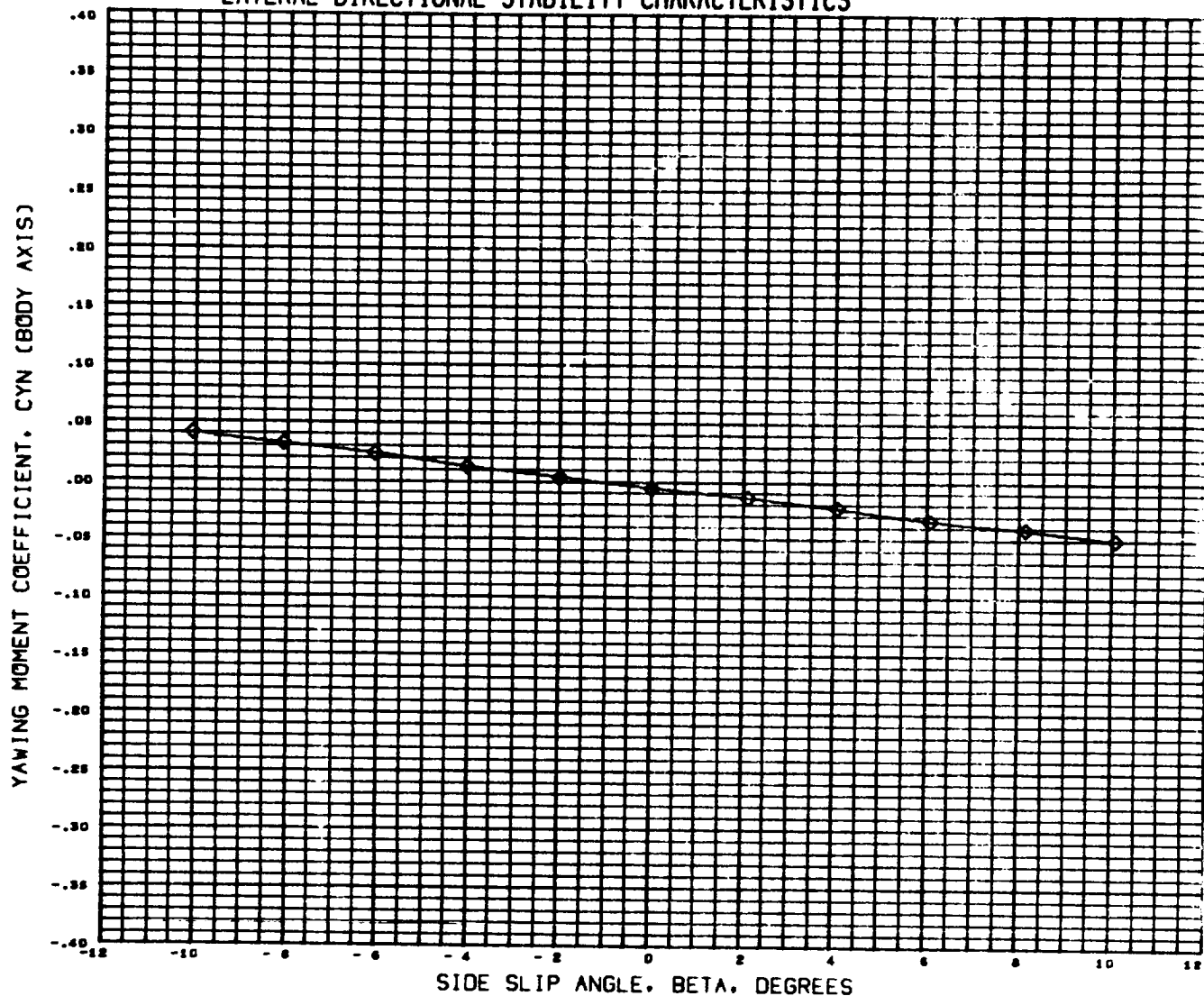
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N492-H8FC AR11981-1 MODEL BW6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 80. IN.
(E3405G)	N492-H8FC AR11981-1 MODEL BW6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 5.480

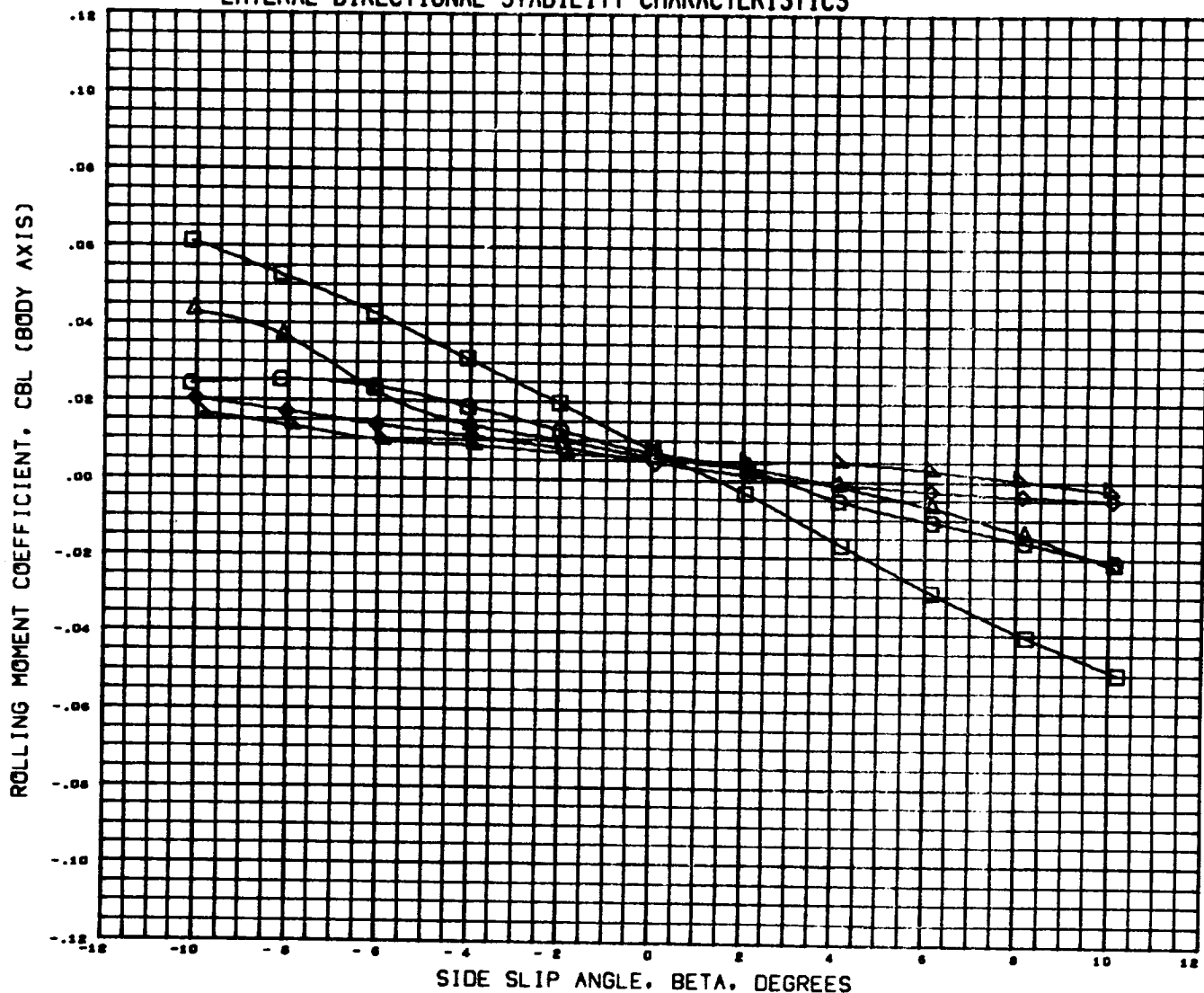
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 80. IN
(E3405G)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LREF 4.3000 10.
(E3405H)	□	N492-NSFC AR11981-1 MODEL BEWSC12V2	15.900	0.000	0.000	0.000	BREF 4.3000 10.
(E3407F)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 10.
(E3407H)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 10.
							ZMRP 0.0000 10.
							SCALE 0.0025

NACH 4.952

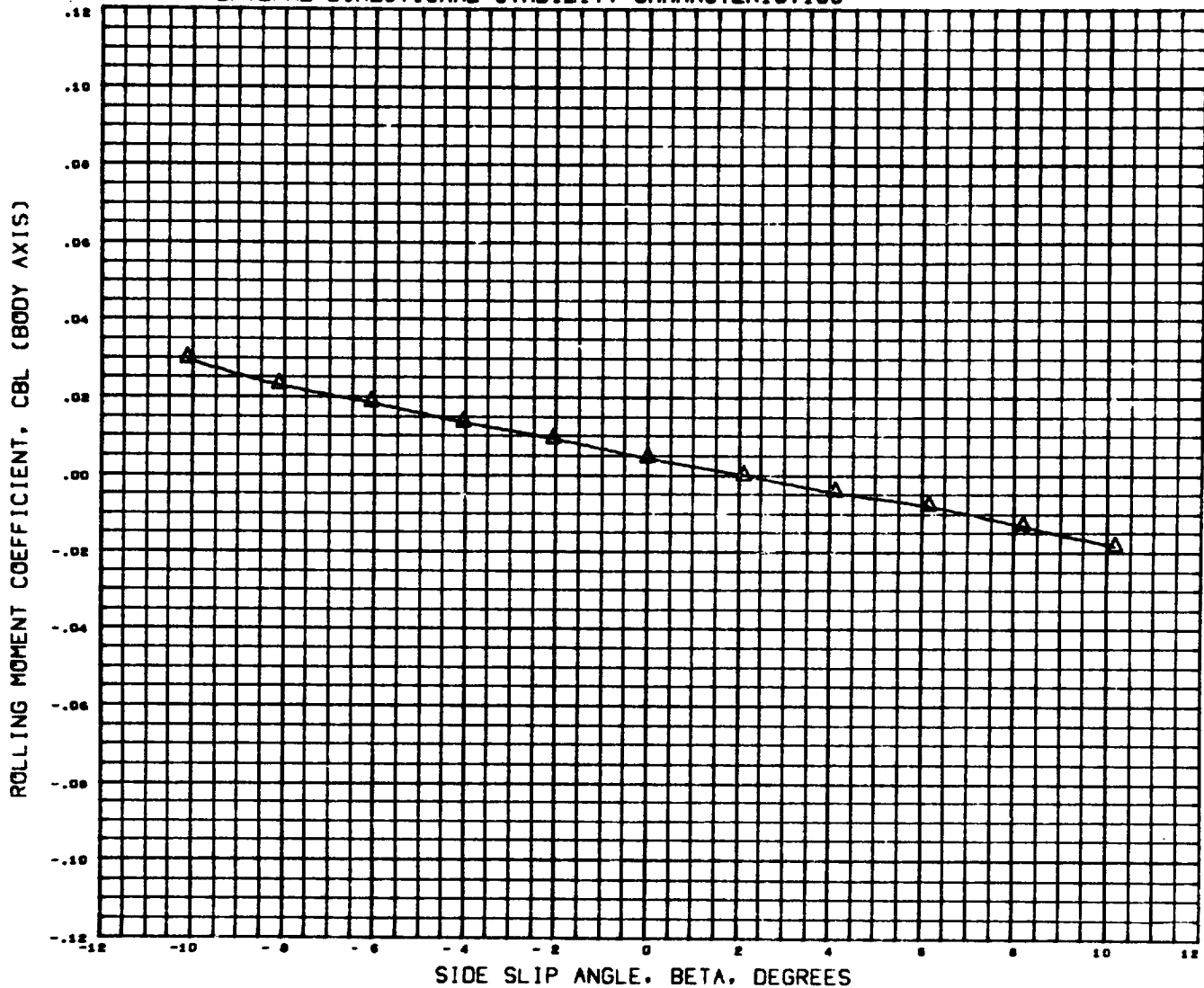
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N492-NSFC AR11981-1 MODEL	0.000	0.000	0.000	0.000	SREF 4.0225 38. IN.
(E3405G)	N492-NSFC AR11981-1 MODEL	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	N492-NSFC AR11981-1 MODEL	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E34077)	N492-NSFC AR11981-1 MODEL	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407N)	N492-NSFC AR11981-1 MODEL	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.604

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

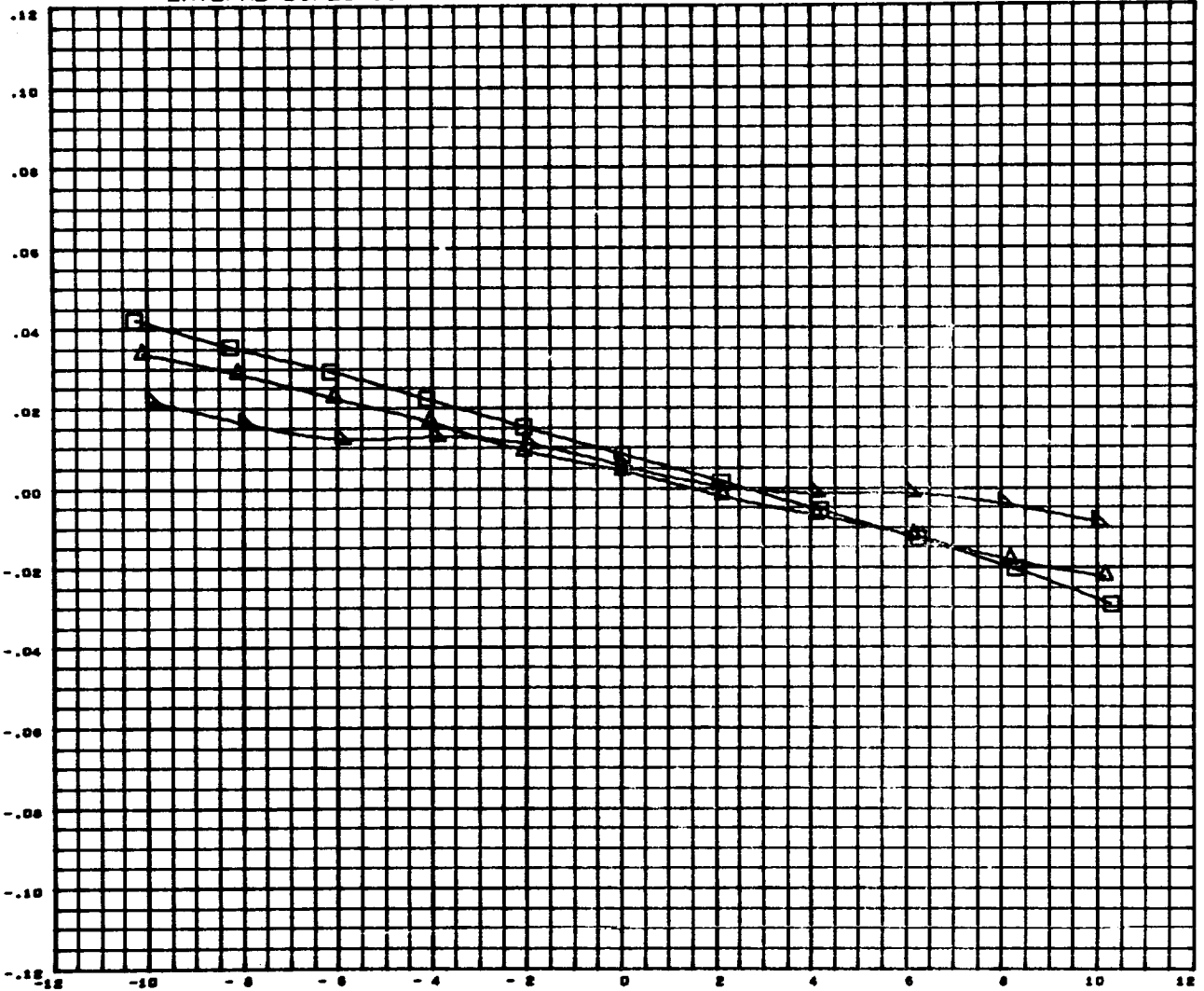


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3405G)	N492-MSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRF	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRF	0.0000 IN.
						ZMRF	0.0000 IN.
						SCALE	0.0025

MACH 0.796

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

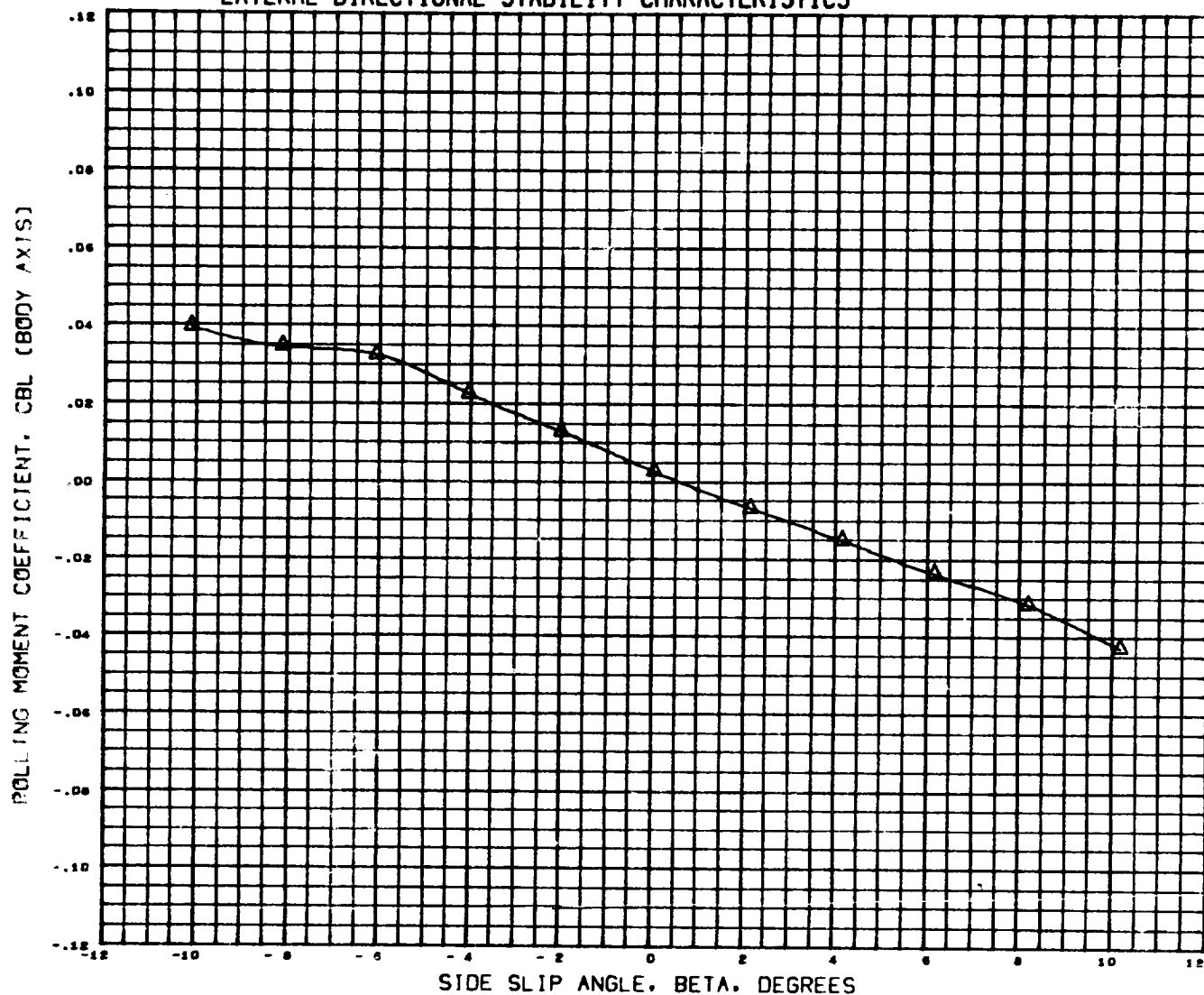
ROLLING MOMENT COEFFICIENT, CBL (BODY AXIS)



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 80.IN.
(E3409G)	M492-NSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3409H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3409F)	M492-NSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	M492-NSFC AR11981-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025
MACH	0.699					

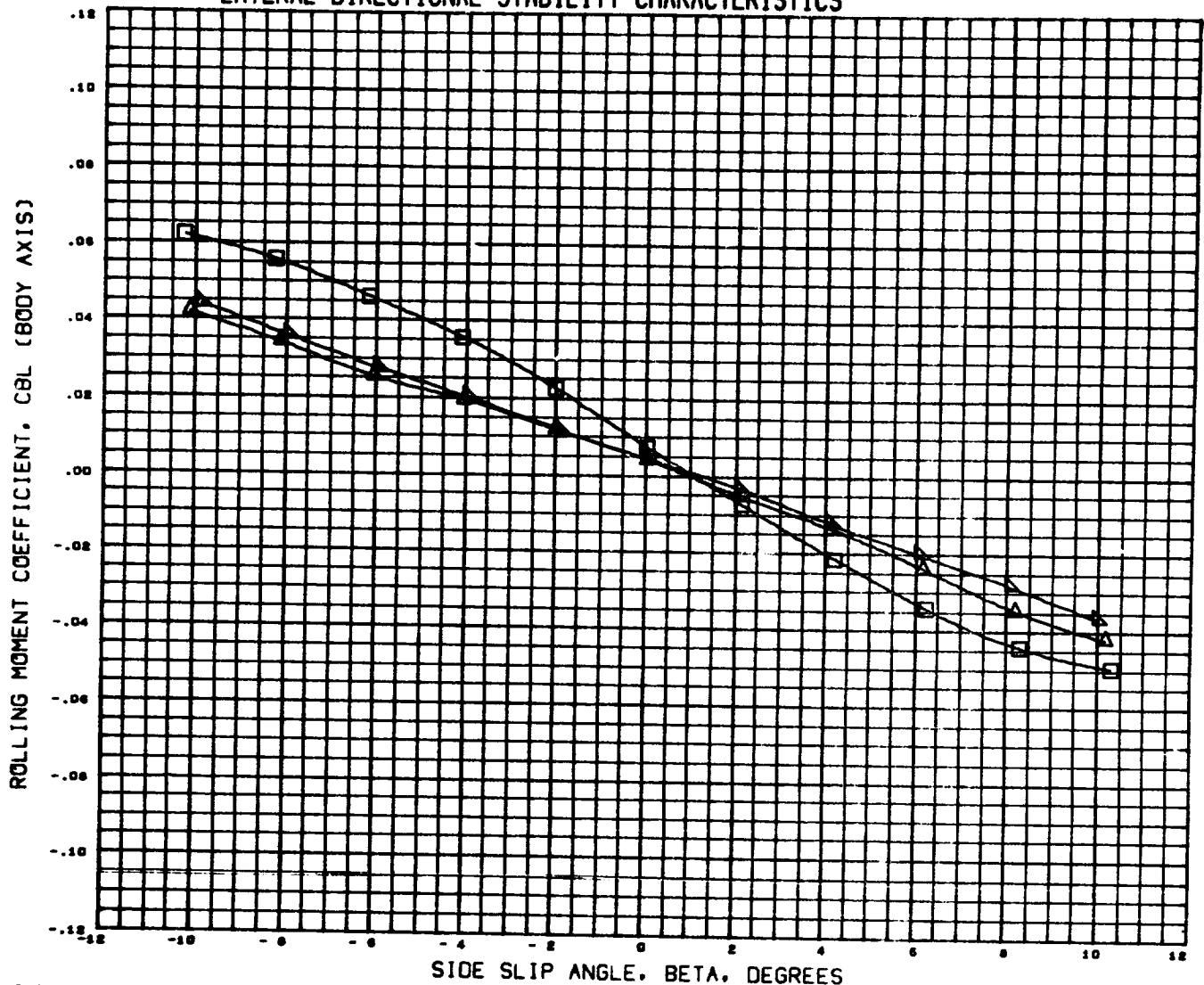
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50 IN.
(E3405G)	M492-MSFC AR119A1-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

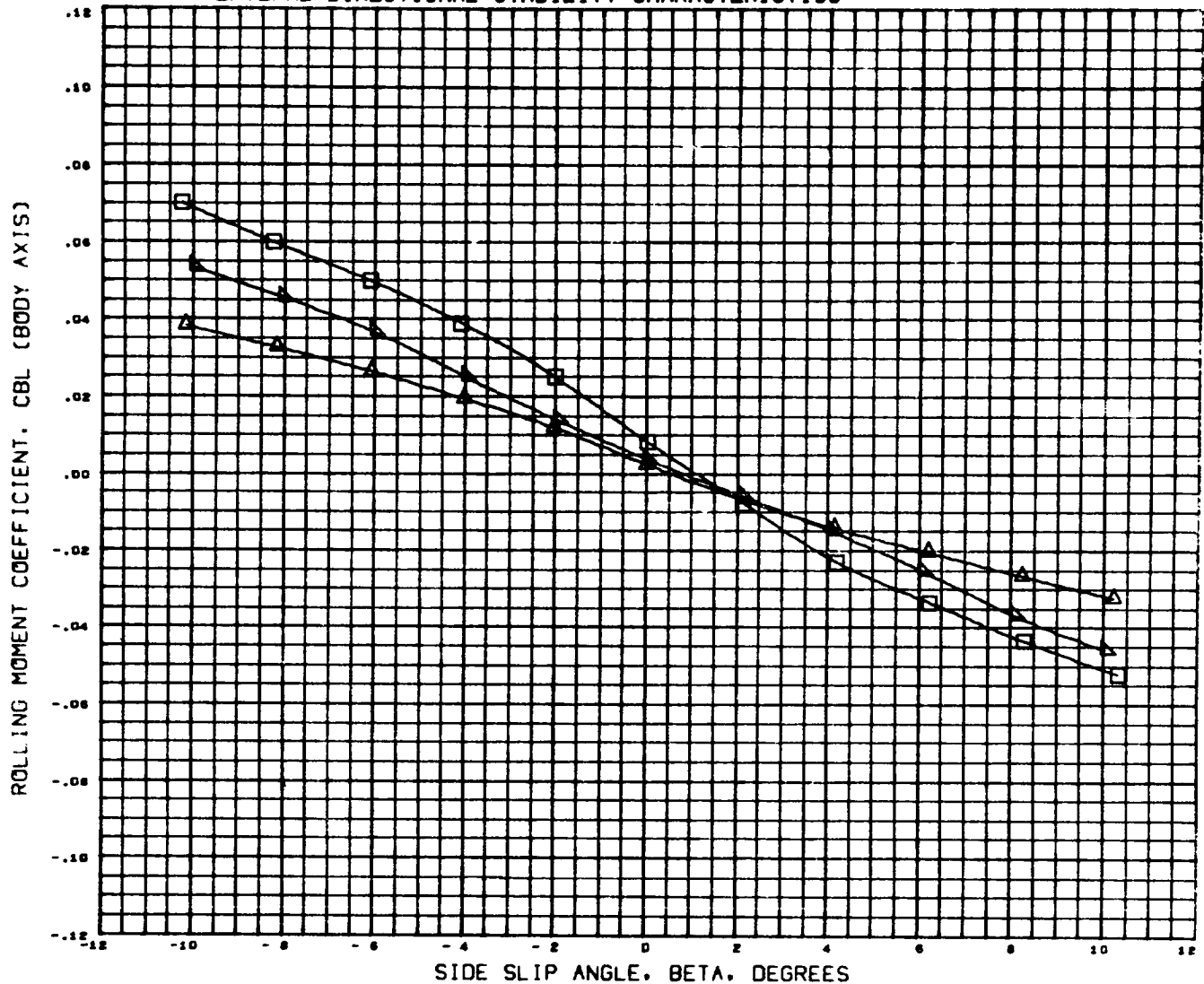
MACH 0.451

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3408F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 36.IN.
(E3408G)	N492-NSFC AR1981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3408H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF	4.3000 IN.
(E3407F)	N492-NSFC AR1981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	YMRP	2.4000 IN.
(E3407N)	N492-NSFC AR1981-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	ZMRP	0.0000 IN.
MACH 1.001						SCALE	0.0025

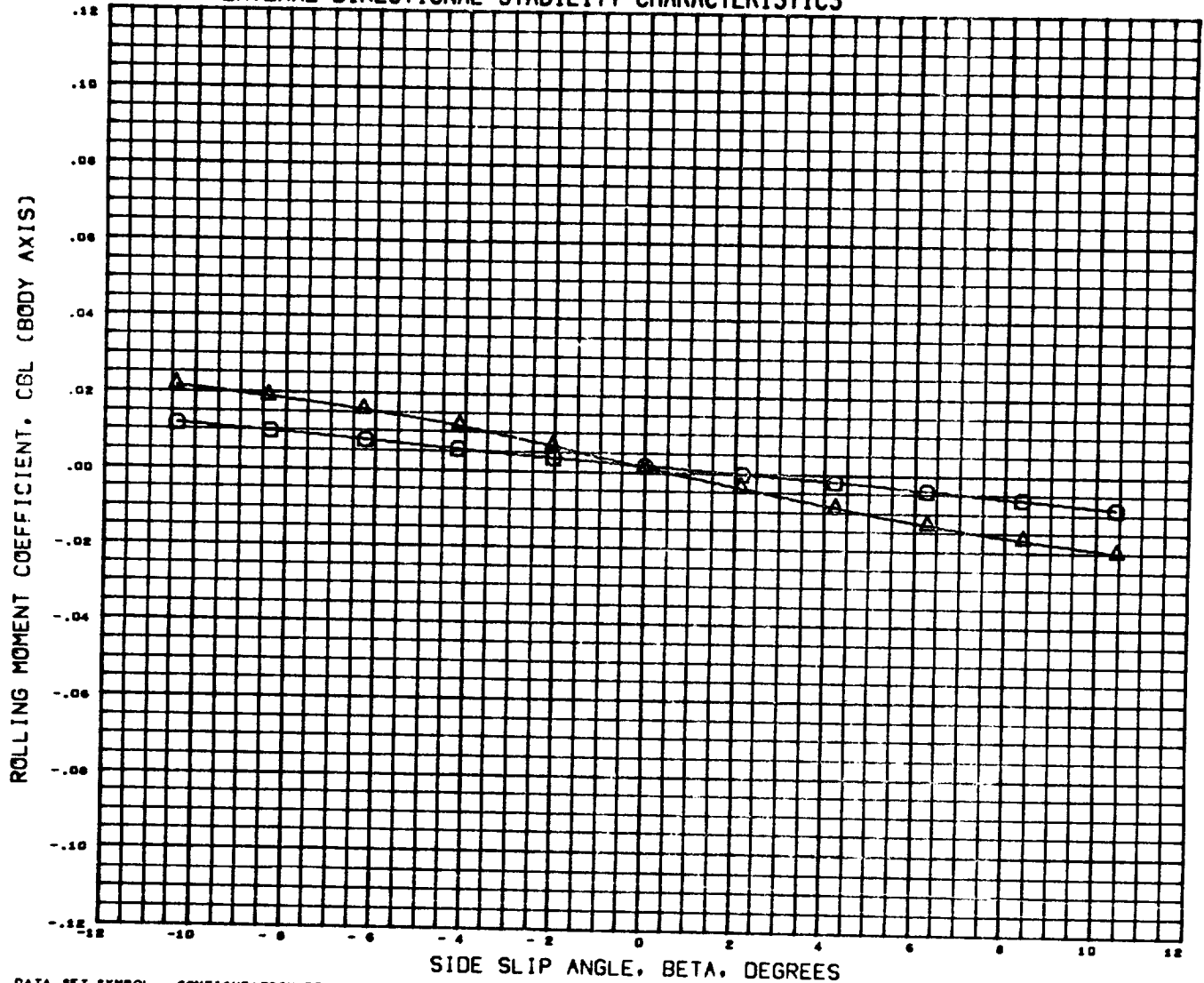
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN
(E3405G)	M492-MSFC AR11901-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-MSFC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	M492-MSFC AR11901-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

NACH 1.197

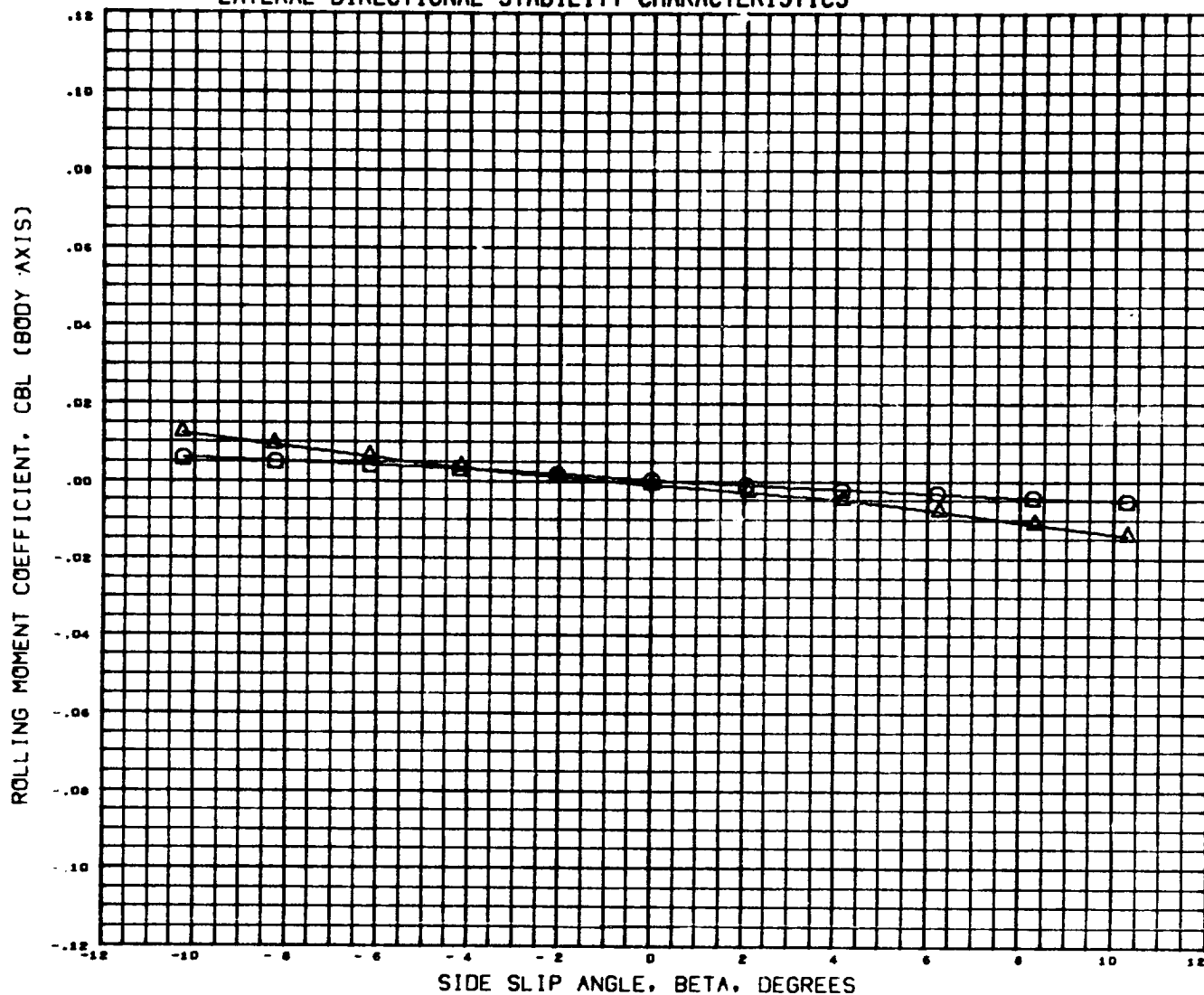
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	CROSS	N49E-HSFC AR11981-1 MODEL BZWSC12V2	0.000	0.000	0.000	0.000	SREF 4.6225 30. IN.
(E34056)		N49E-HSFC AR11981-1 MODEL BZWSC12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405M)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407M)		DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

NACN 1.953

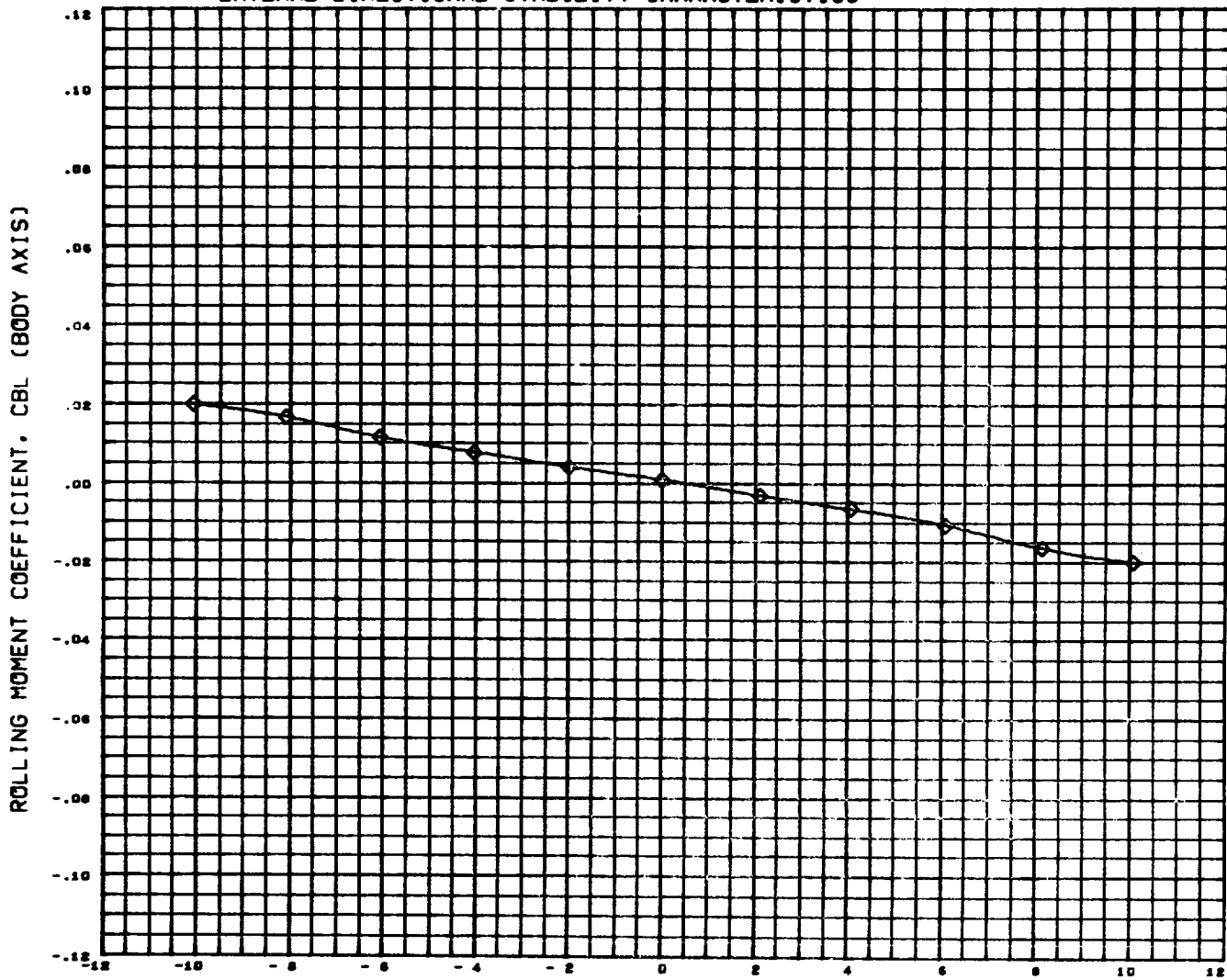
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	M492-MSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 50 IN.
(E3405G)	M492-MSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E3405G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	N492-MSFC AR1981-1 MODEL 82W6C12V2	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

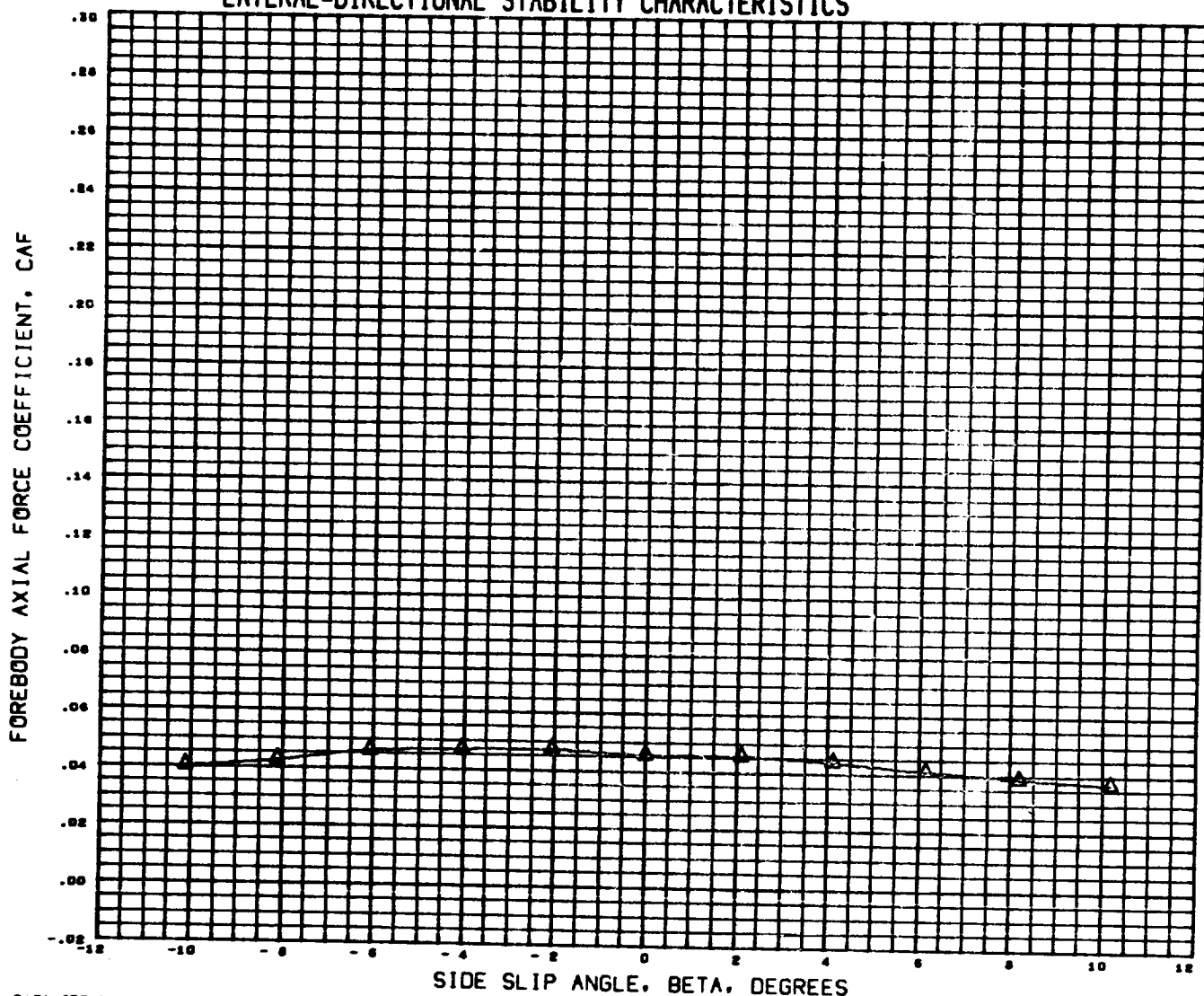


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION		
(E3405F)	M492-HSFC AR11961-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF	4.6225	30 IN.
(E3405G)	M492-HSFC AR11961-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000	IN.
(E3405H)	M492-HSFC AR11961-1 MODEL B2W6C12V2	15.500	0.000	0.000	0.000	BREF	4.3000	IN.
(E3407F)	M492-HSFC AR11961-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	YNRP	2.4000	IN.
(E3407H)	M492-HSFC AR11961-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YNRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

MACH 0.604

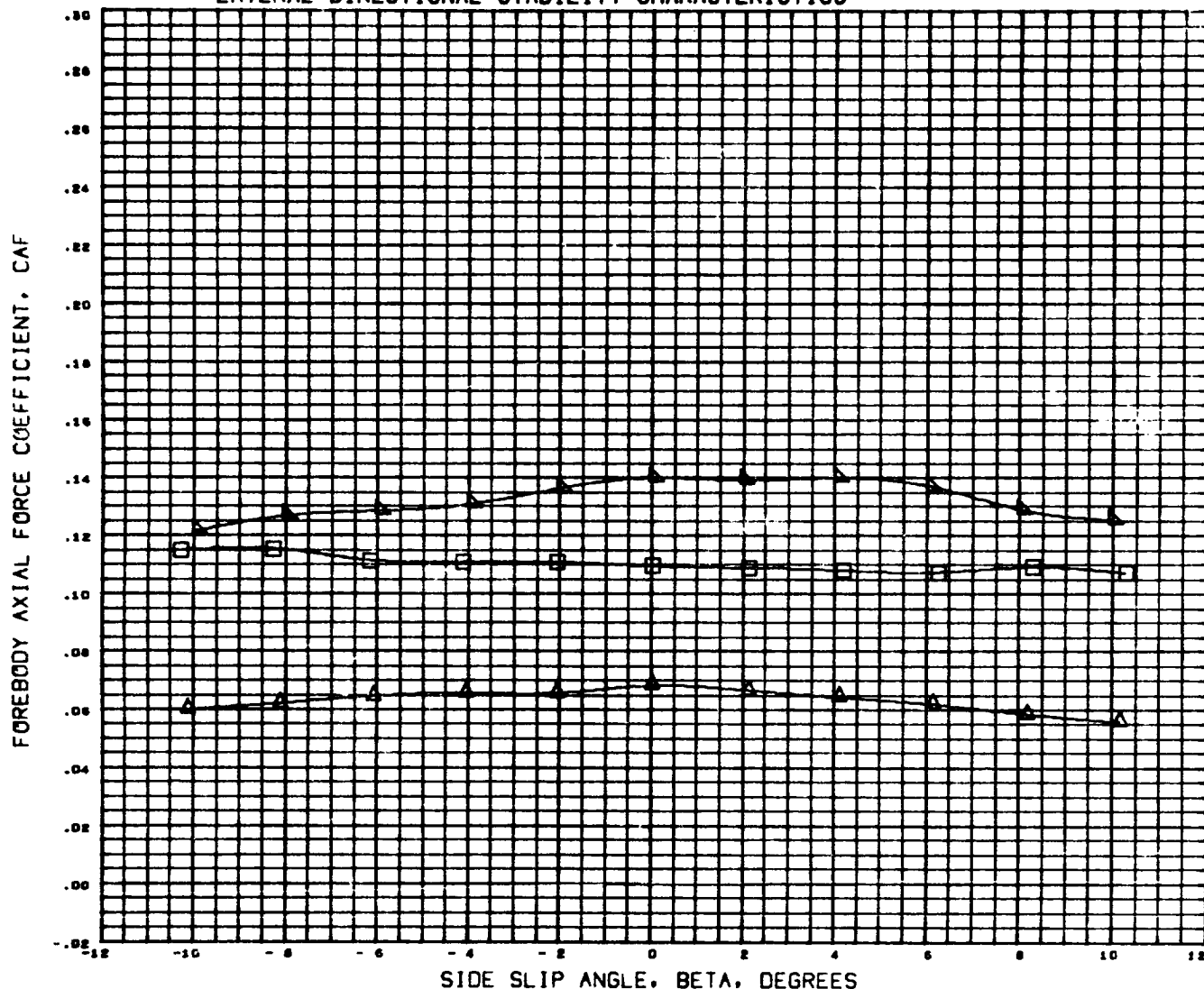
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3408F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.4223 36 IN.
(E3408G)	M492-MSFC AR1981-1 MODEL BEM6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3408H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	YMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.300	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

NACH 0.798

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



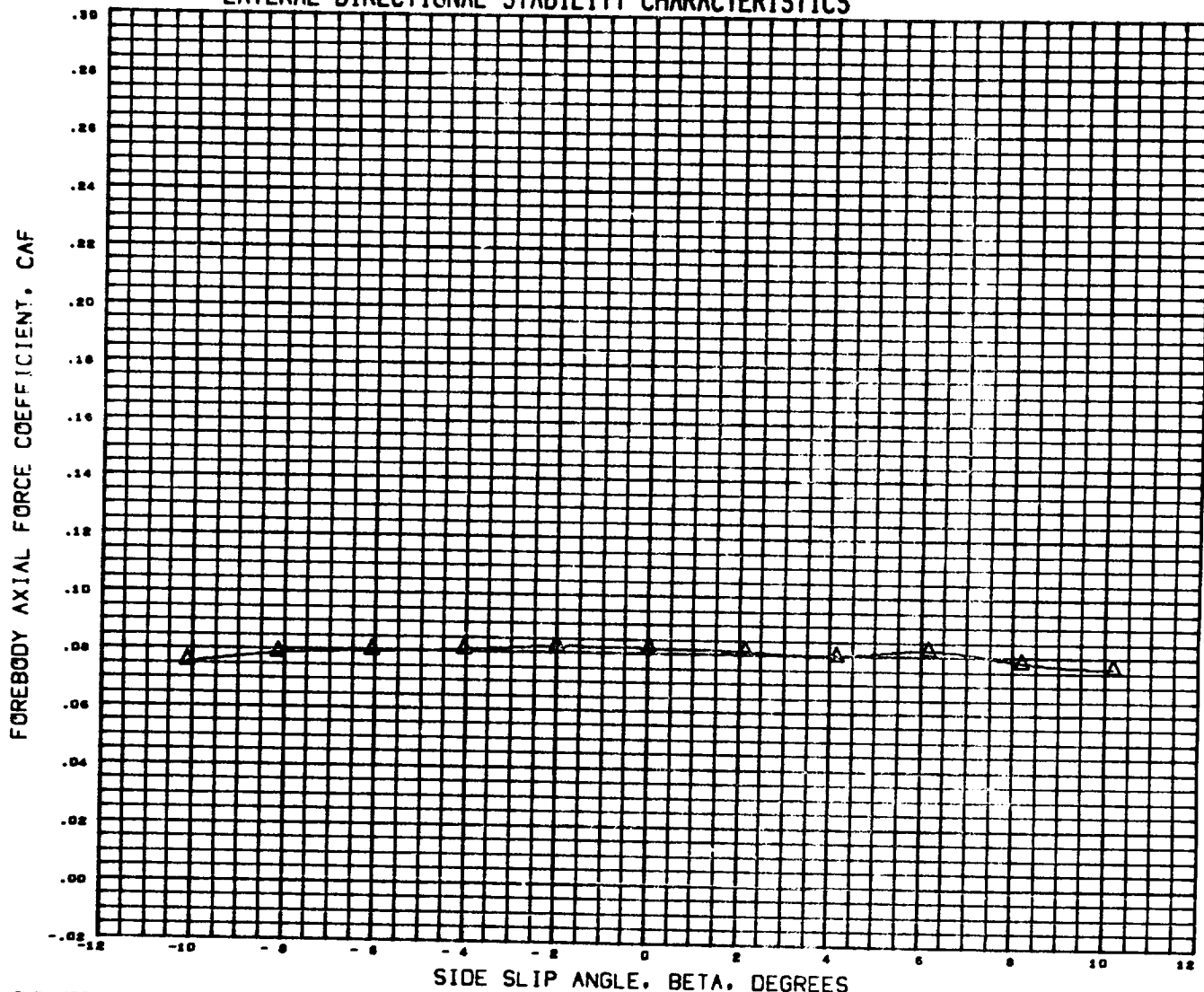
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3403F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3403G) H492-HSFC AR11981-1 MODEL 8ZW6C12V2
 (E3403H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3403I) H492-HSFC AR11981-1 MODEL 8ZW6C12V2
 (E3403J) H492-HSFC AR11981-1 MODEL 8ZW6C12V2

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6225 Sq. IN.
10.000	0.000	0.000	0.000	LREF 4.3000 IN.
15.300	0.000	0.000	0.000	BREF 4.3000 IN.
0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 0.696

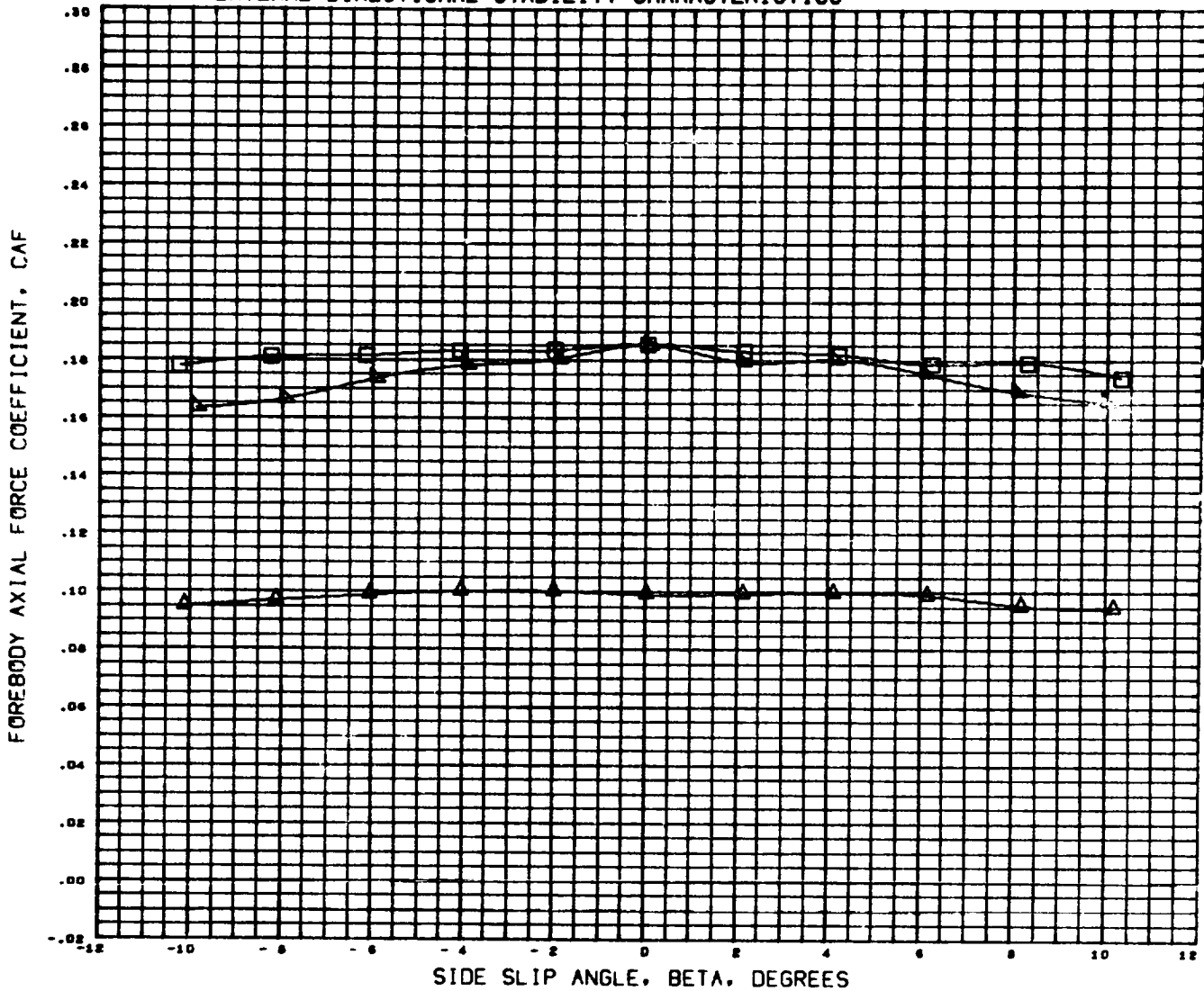
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3405G)	M492-MSFC AR1190I-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.951

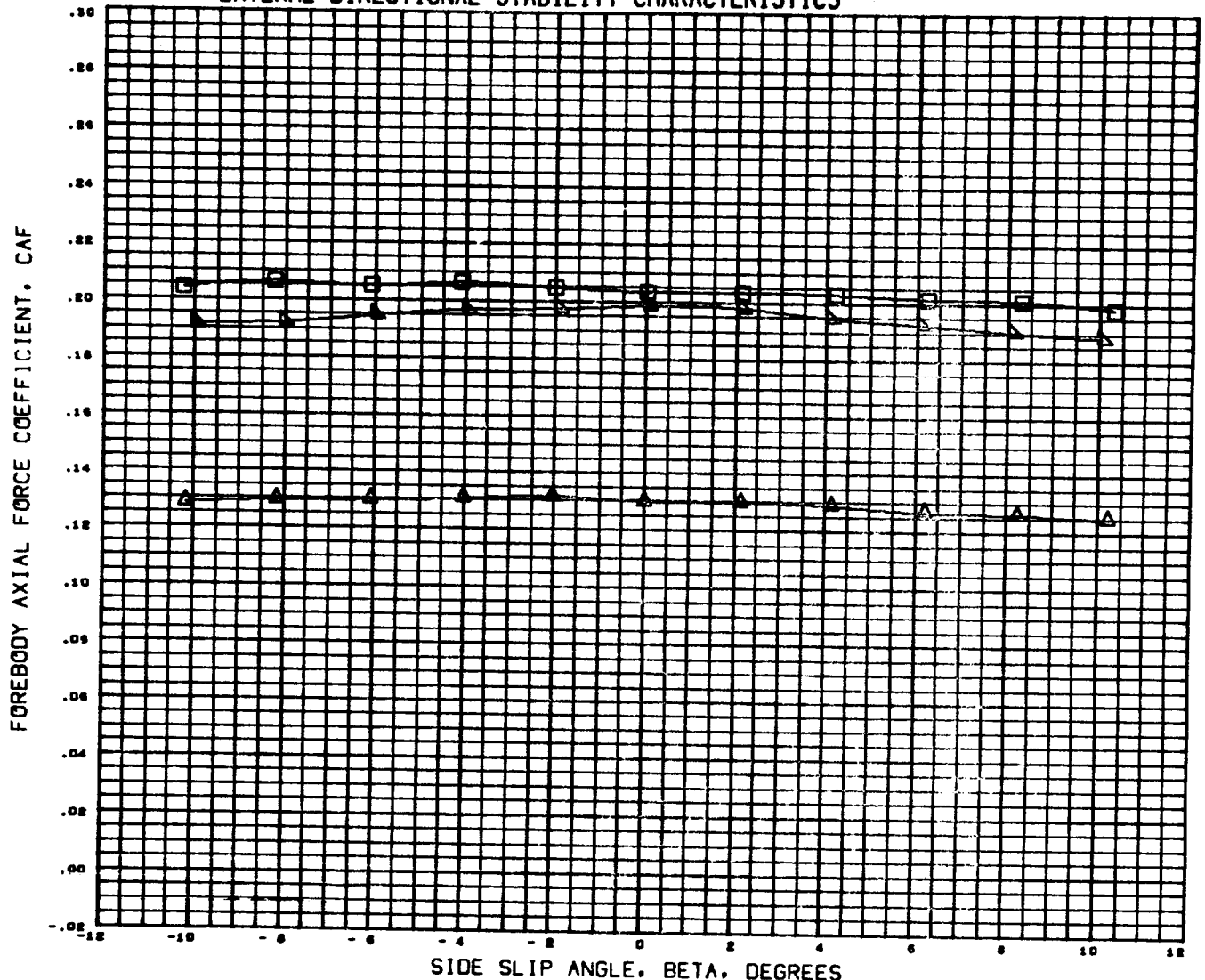
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50. IN.
(E3405G)	N492-MSFC AR11901-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3000 IN
(E3407F)	N492-MSFC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XHRP 2.4000 IN
(E3407H)	N492-MSFC AR11901-1 MODEL B2W6C12V2	15.000	20.000	0.000	0.000	YHRP 0.0000 IN
						ZHRP 0.0000 IN
						SCALE 0.0025

MACH 1.001

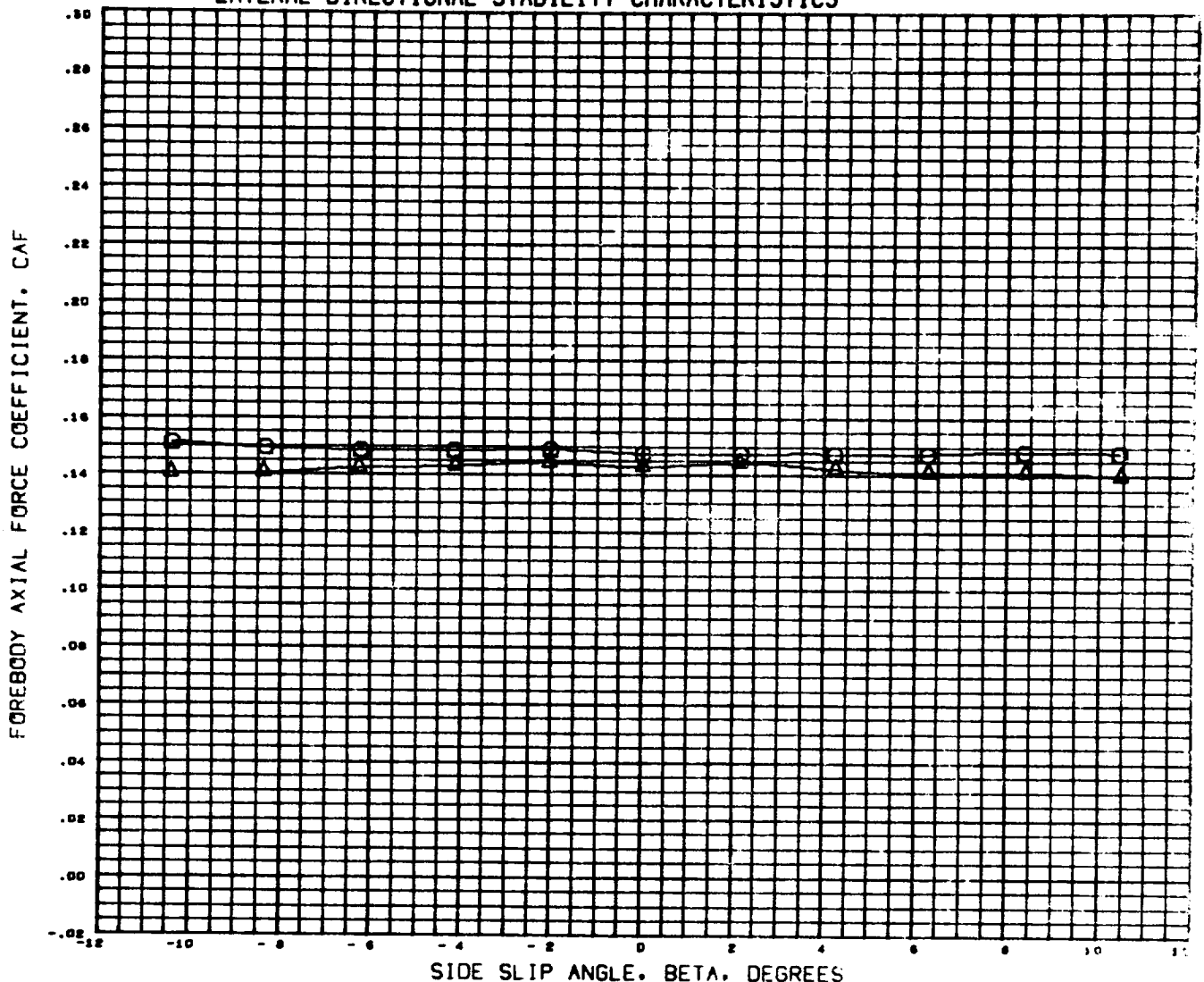
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3405G)	M492-N8FC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	8REF 4.3000 IN.
(E3407F)	M492-N8FC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	M492-N8FC AR11981-1 MODEL B2W6C12V2	15.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.197

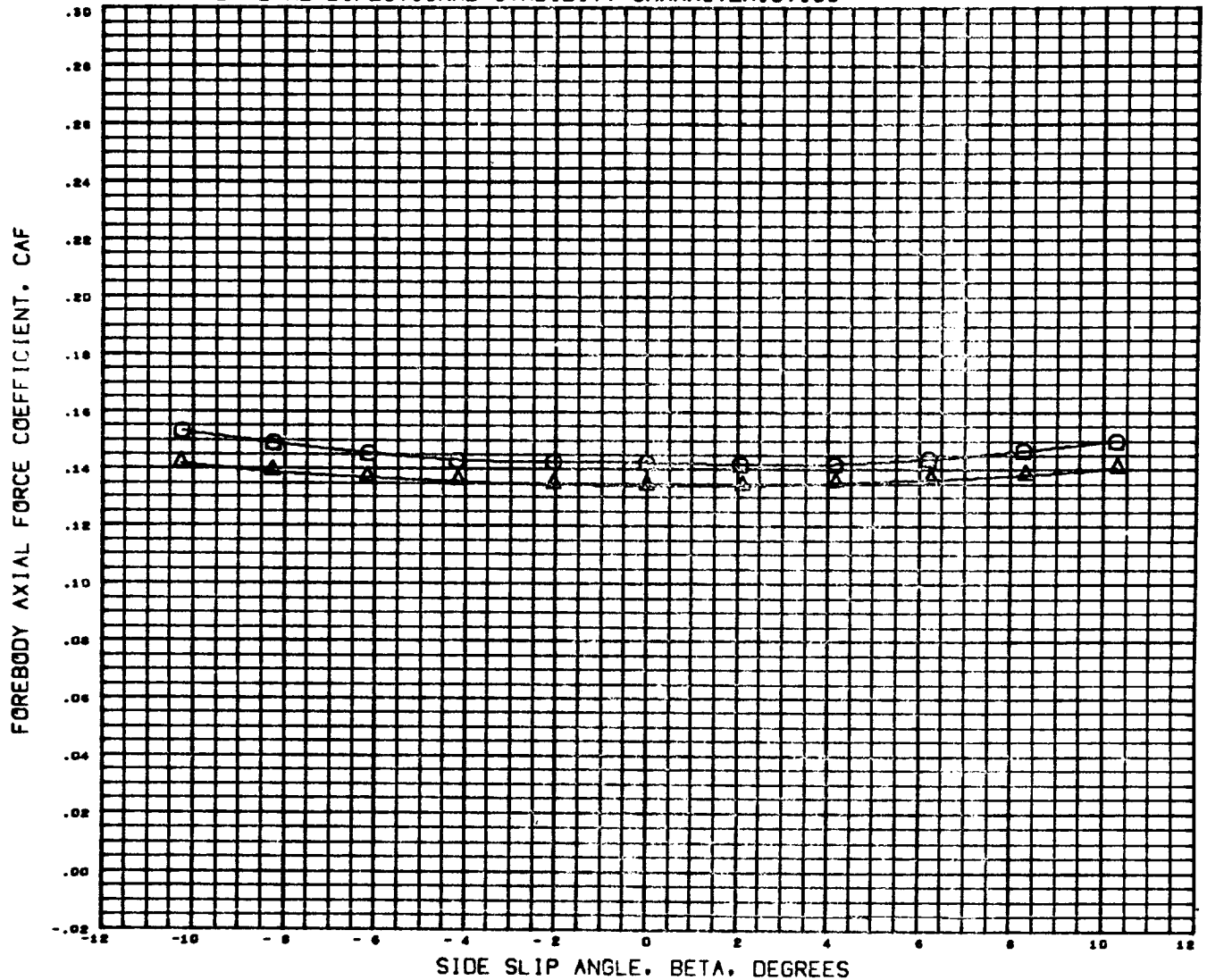
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	M492-MSFC AR11991-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6223 59.1N
(E3403G)	M492-MSFC AR11991-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 1N
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3000 1N
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 1N
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 1.950

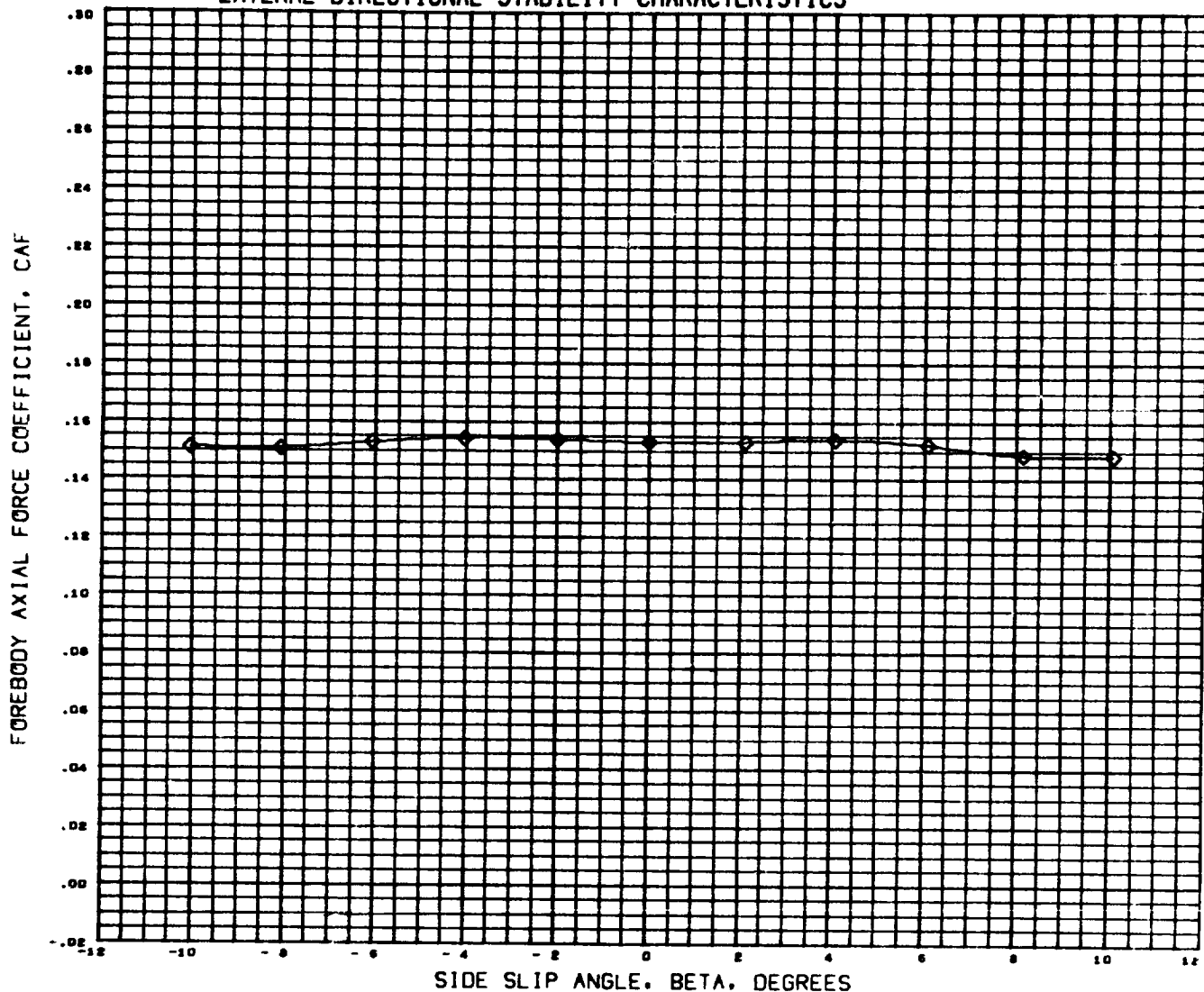
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	M492-NBFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 30. IN.
(E3405G)	M492-NBFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XNRF 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YNRF 0.0000 IN.
						ZNRF 0.0000 IN.
						SCALE 0.0025

MACH 3.480

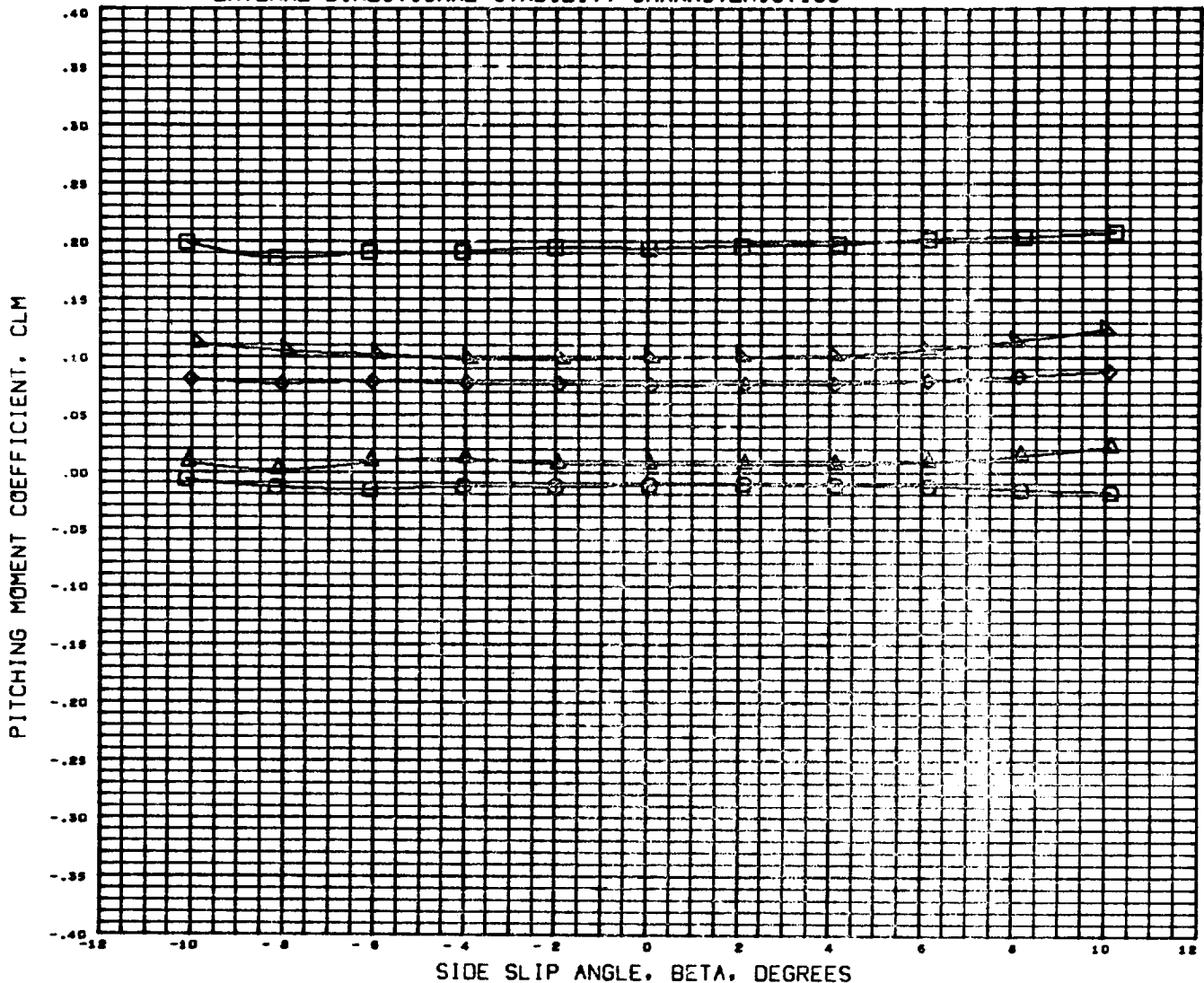
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN
(E3405G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	M492-MSFC AR1981-1 MODEL B2W6C12V2	15.500	0.000	0.000	0.000	SREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 4.959

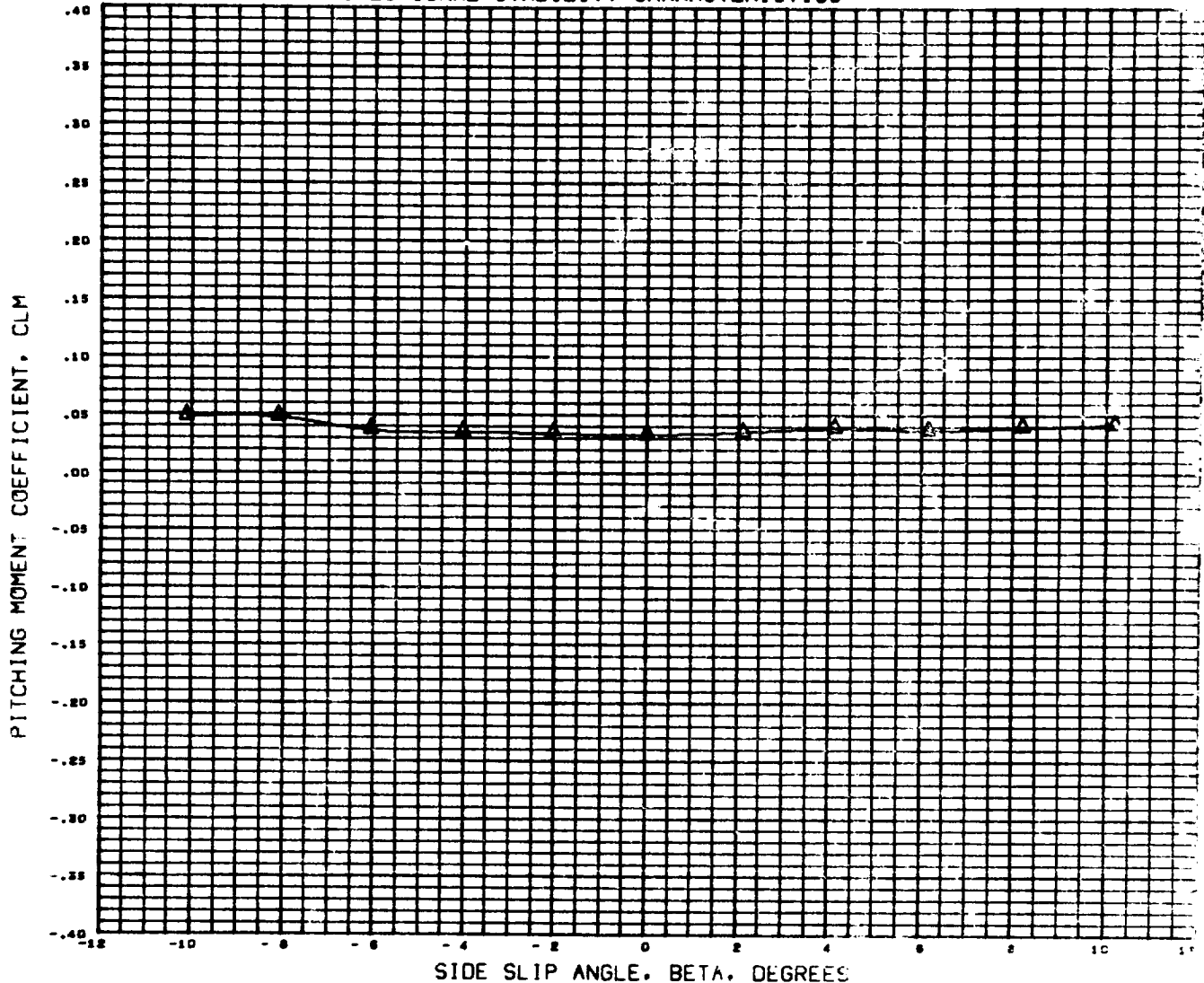
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRCN	REFERENCE INFORMATION
(E3405F)	M492-MSFC AR11001-1 MODEL S2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.5225 30.IN.
(E3405G)	M492-MSFC AR11001-1 MODEL S2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	M492-MSFC AR11001-1 MODEL S2W6C12V2	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-MSFC AR11001-1 MODEL S2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	M492-MSFC AR11001-1 MODEL S2W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.604

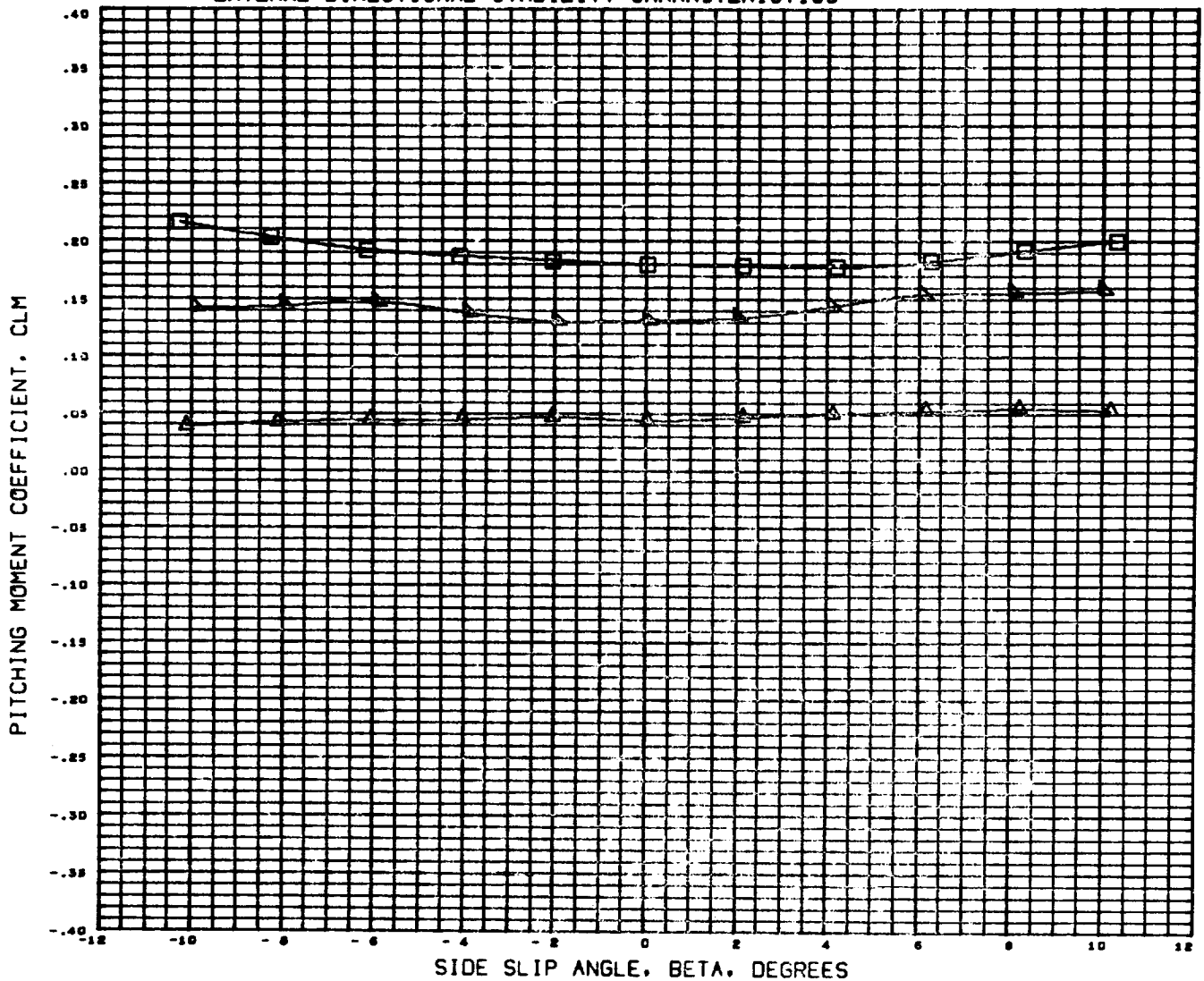
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.622 36...
(E3405G)	M492-MSFC ARI1991-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.300 14...
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.300 14...
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 1...
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 1...
						ZMRP 0.0000 1...
						SCALE 0.002*

MACH 0.788

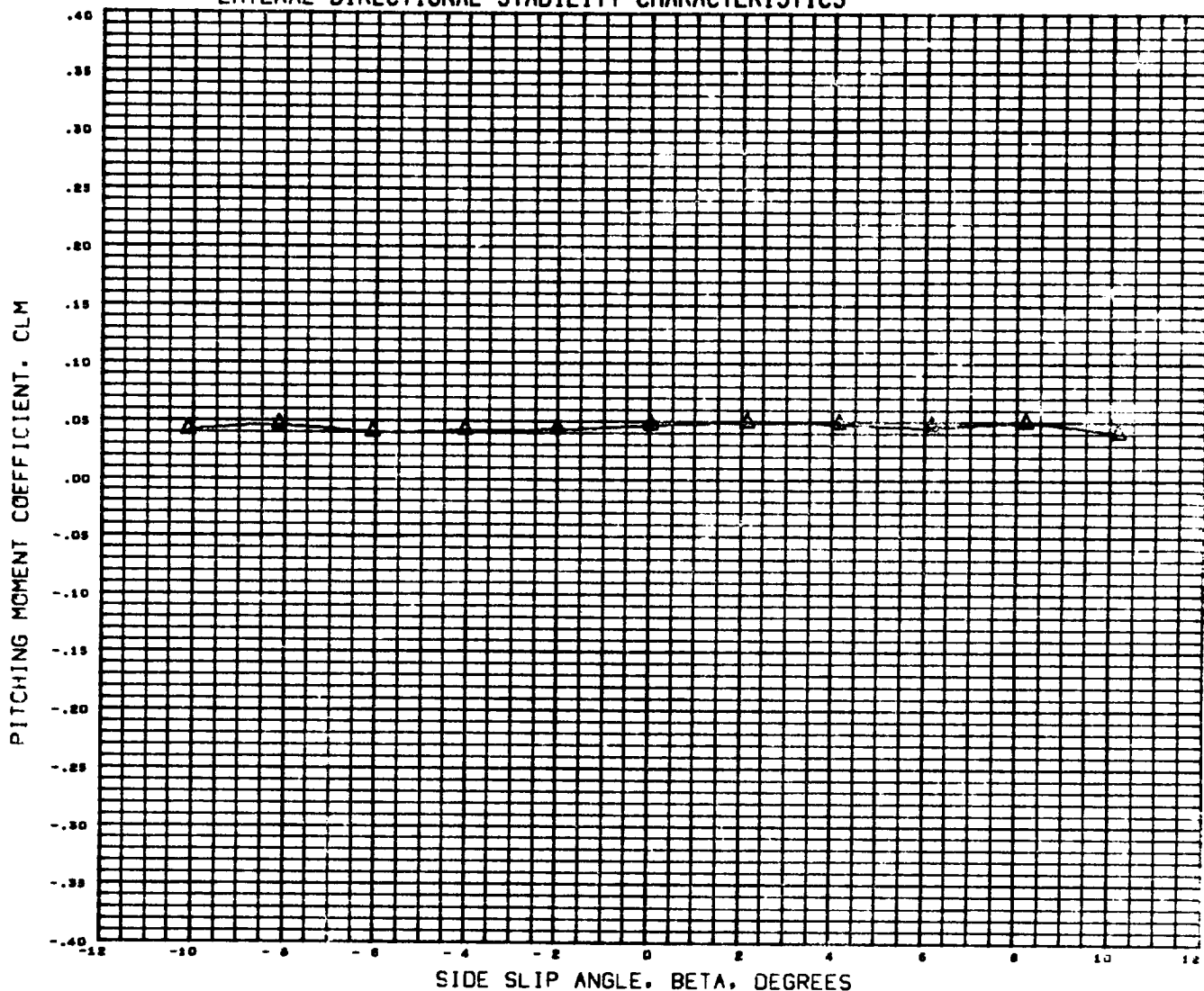
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3405G)	M492-NSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-NSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XWRP 2.4000 IN.
(E3407H)	M492-NSFC AR11981-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YWRP 0.0000 IN.
						ZWRP 0.0000 IN.
						SCALE 0.0025

MACH 0.888

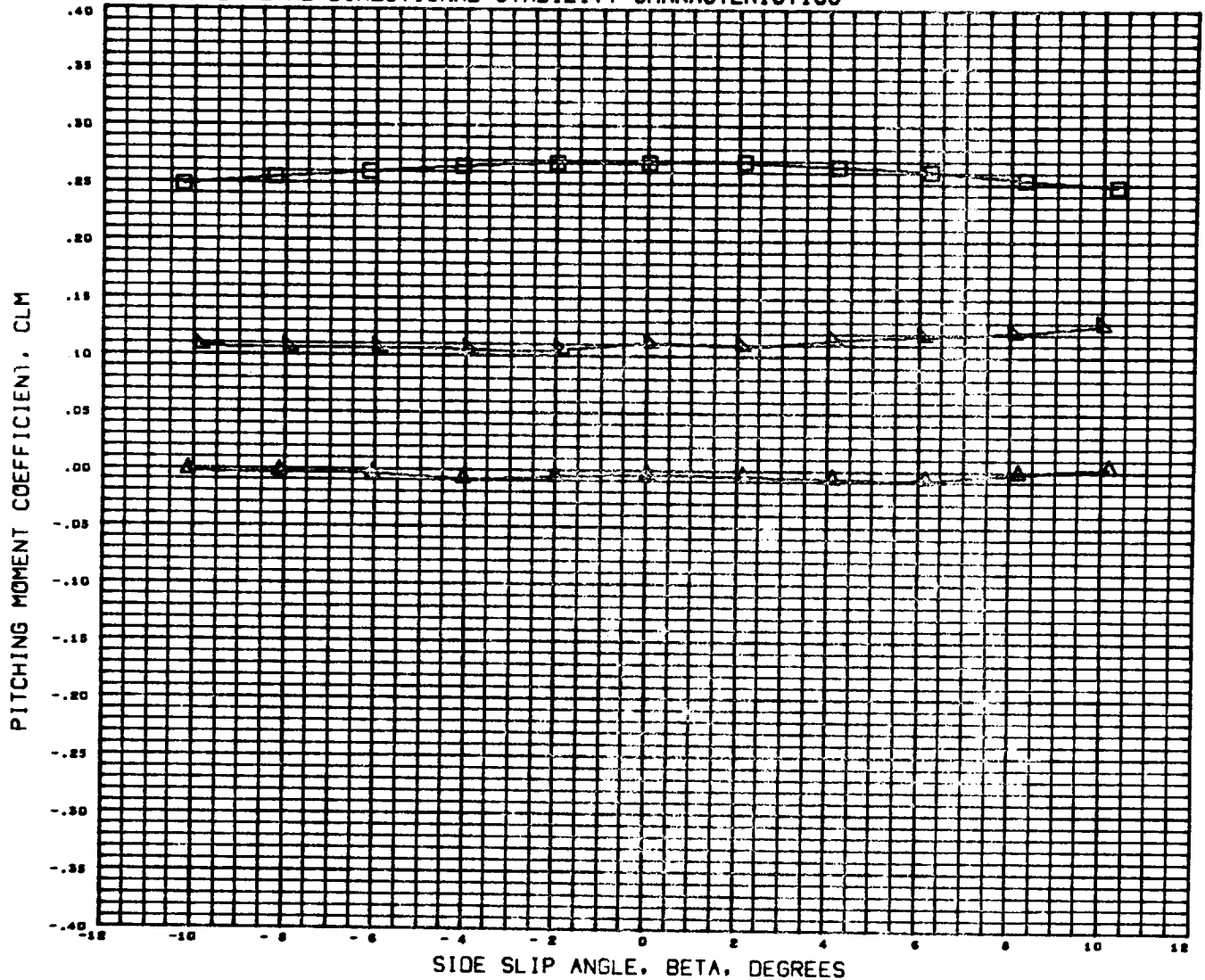
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50.14
(E3405G)	M492-MSFC AR11581-1 MODEL B2W5C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 14
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 14
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 14
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 14
						ZMRP	0.0000 14
						SCALE	0.0025 14

MACH 0.951

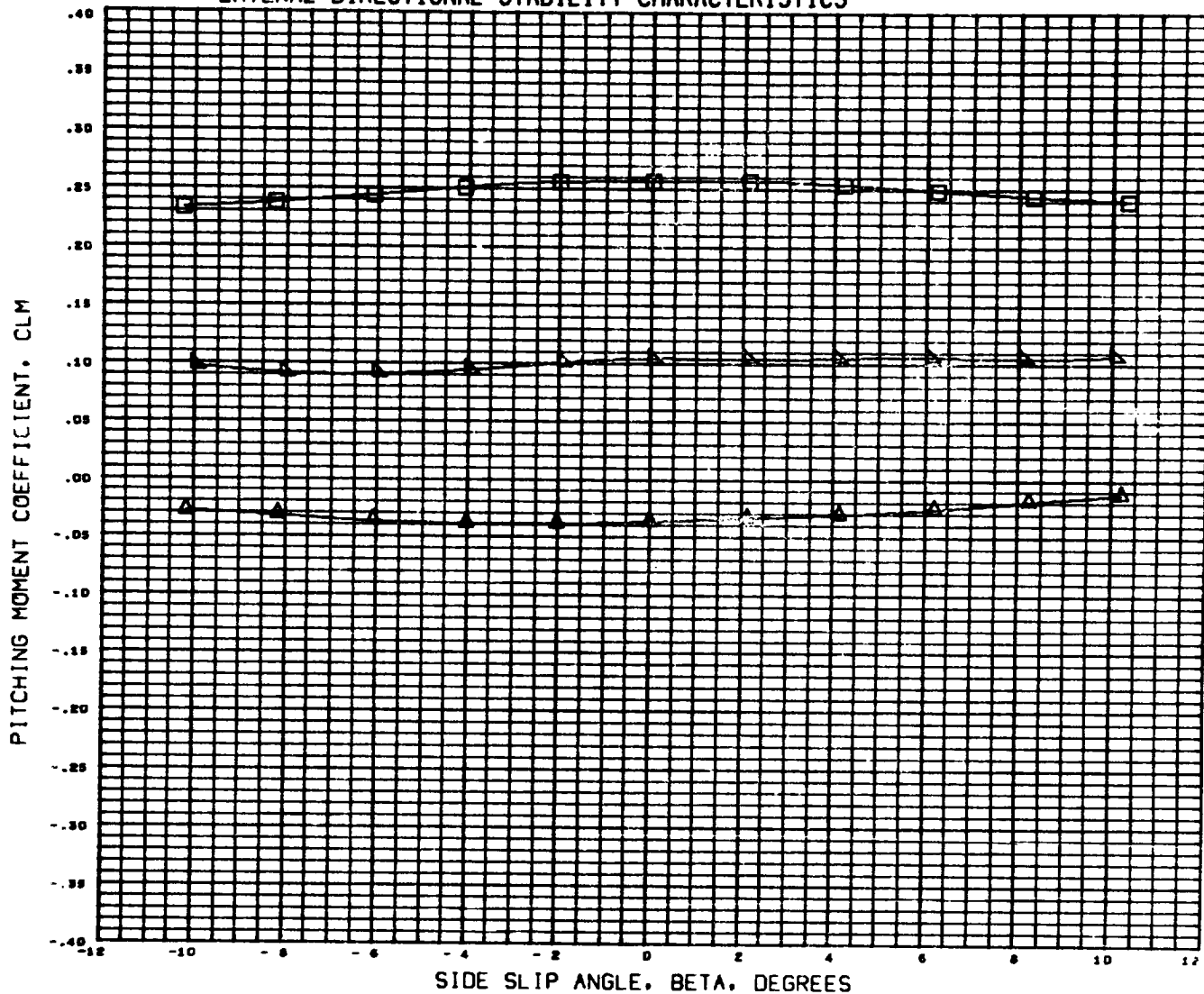
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 80. IN.
(E3403G)	M492-M8FC AR11001-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-M8FC AR11001-1 MODEL 82W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	M492-M8FC AR11001-1 MODEL 82W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.001

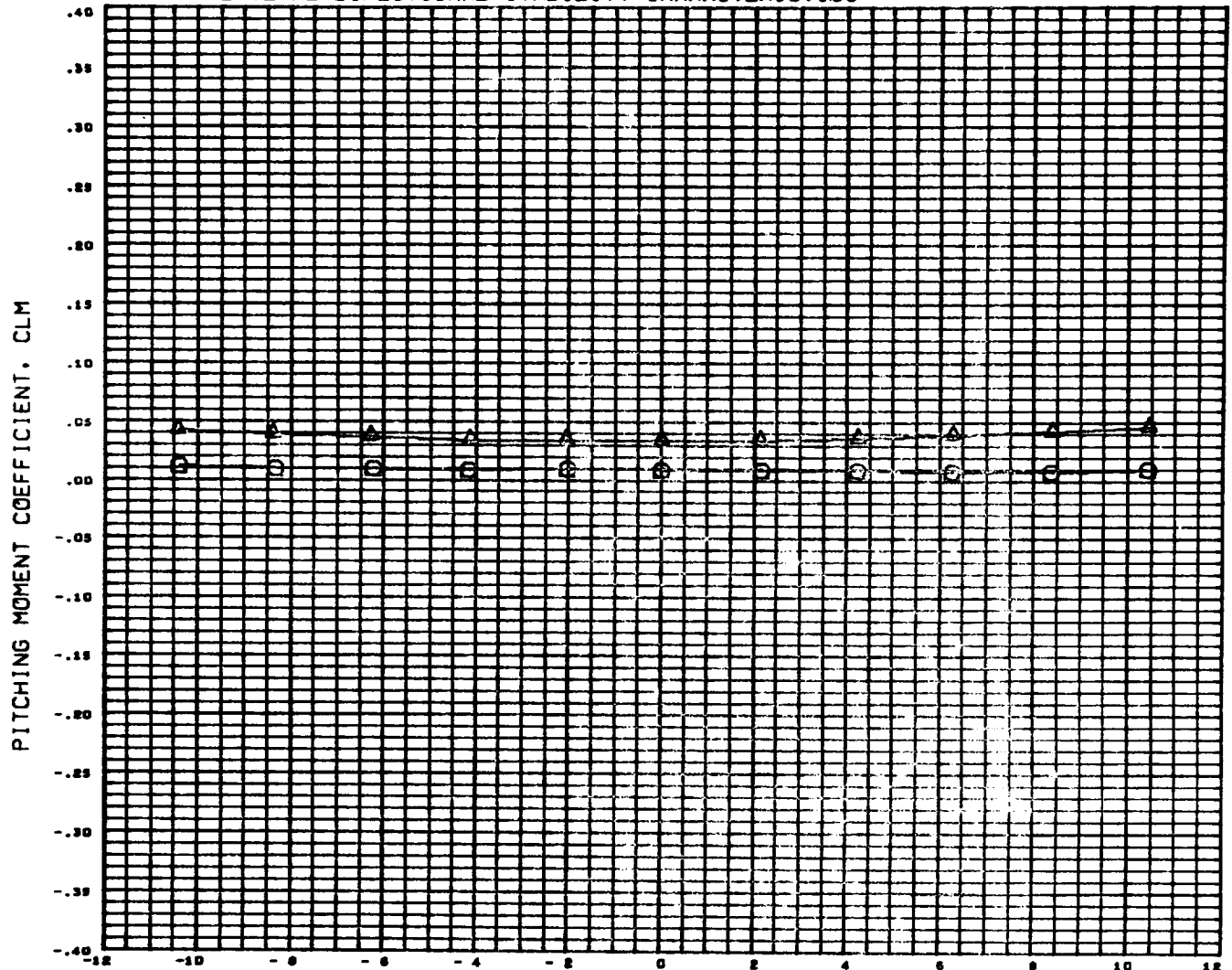
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50 IN.
(E3405G)	□	N492-HSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	□	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	△	N492-HSFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	▽	N492-HSFC AR11981-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
							ZMRP	0.0000 IN.
							SCALE	0.0025

MACH 1.197

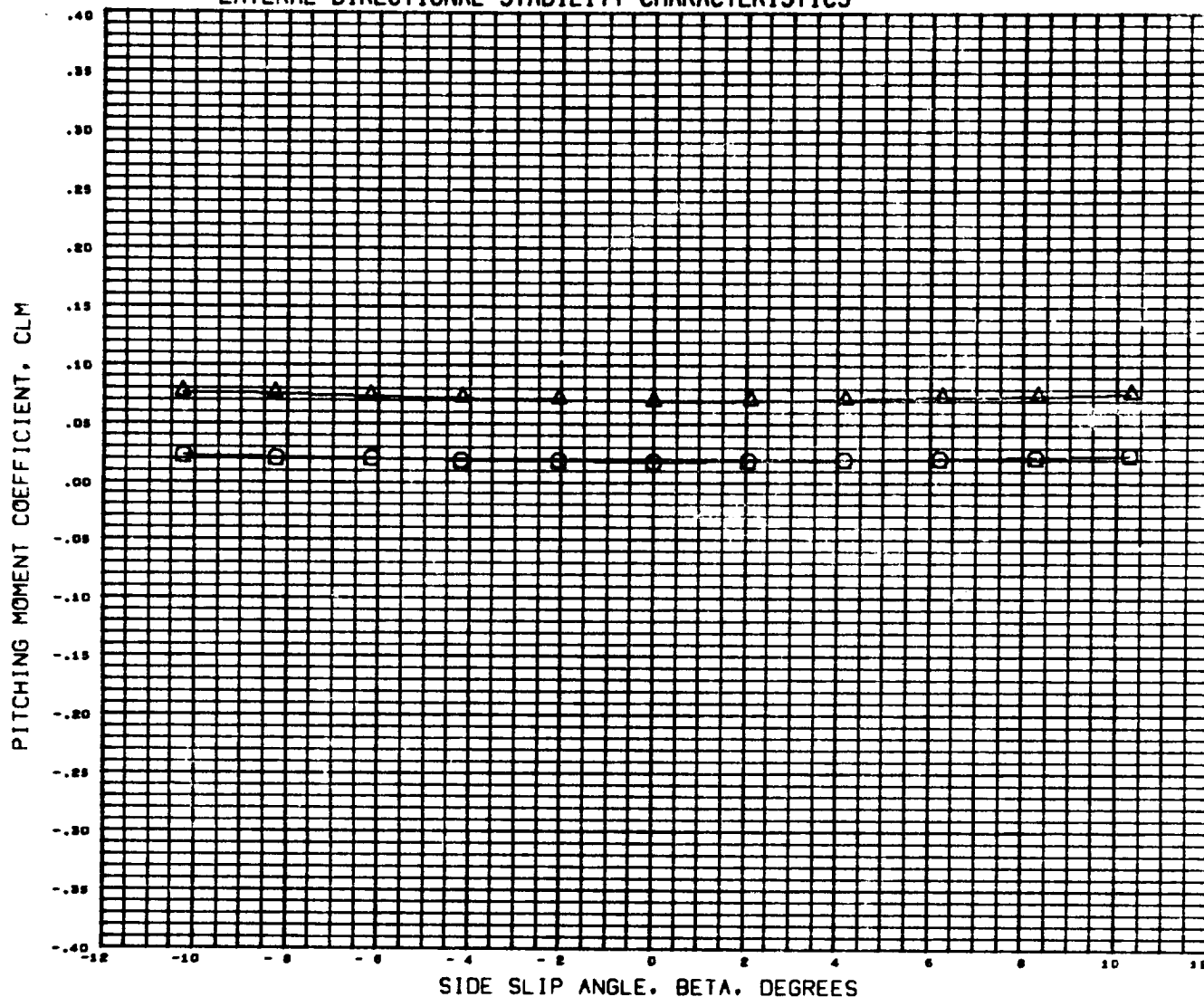
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N482-MSFC AR11001-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 56. IN.
(E3405G)	N482-MSFC AR11001-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.053

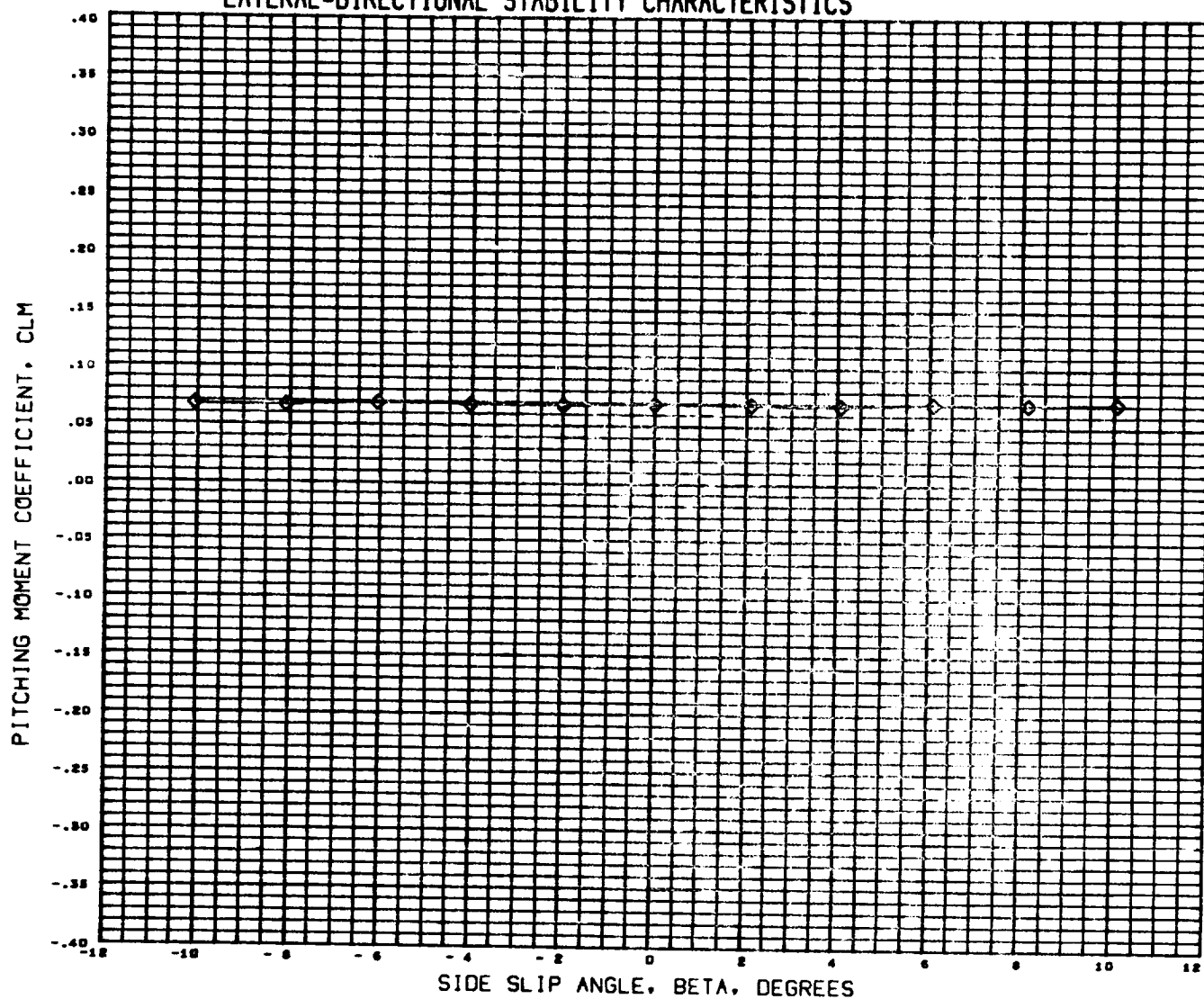
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 50.1N
(E3405G)	M492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 1N
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 1N
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0075

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



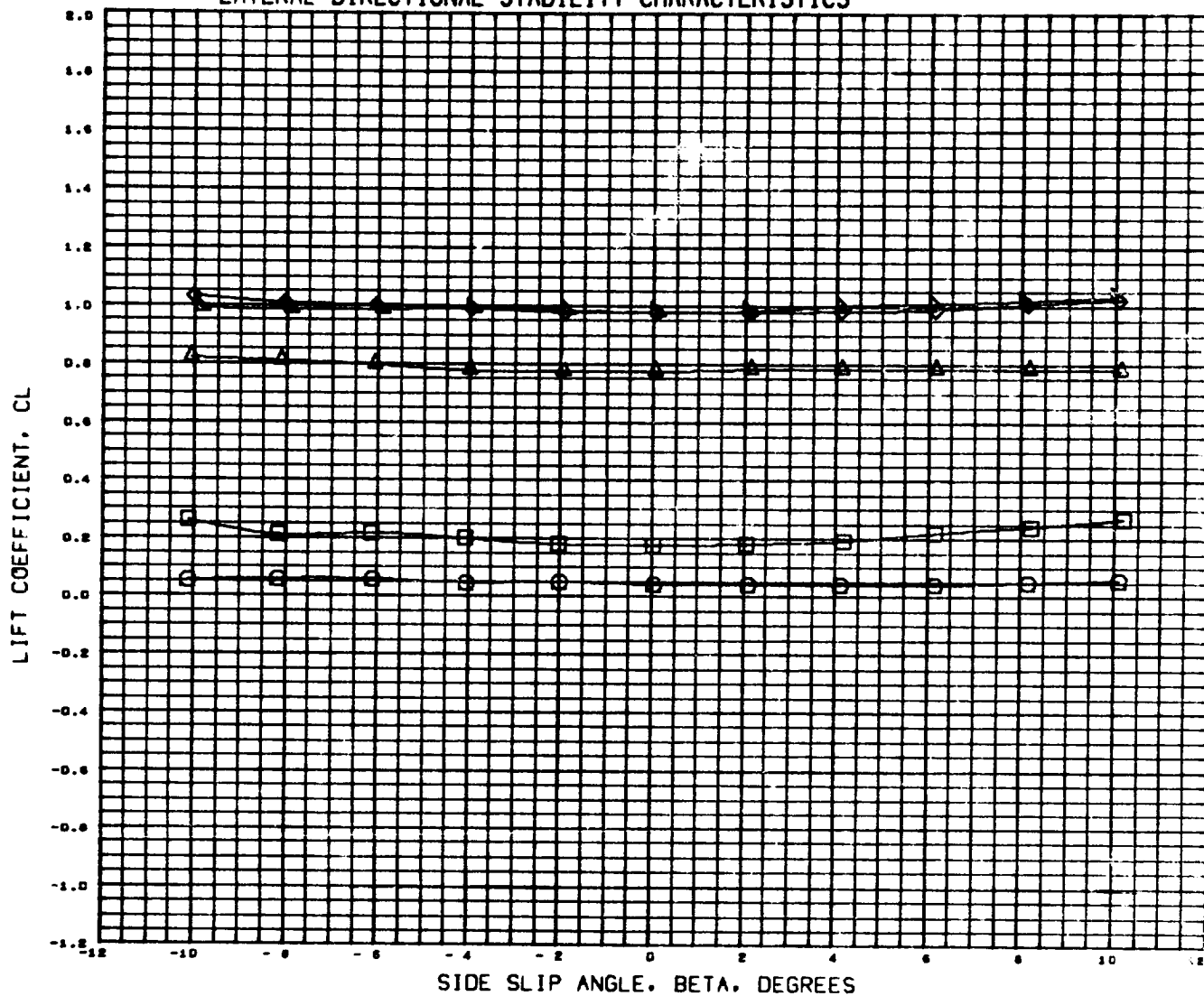
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3405F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3405G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3405H) M492-MSFC AR11961-1 MODEL B2W6C12V2
 (E3407F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407H) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
10.000	0.000	0.000	0.000	LREF 4.3000 IN.
15.500	0.000	0.000	0.000	BREF 4.3000 IN.
0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 4.959

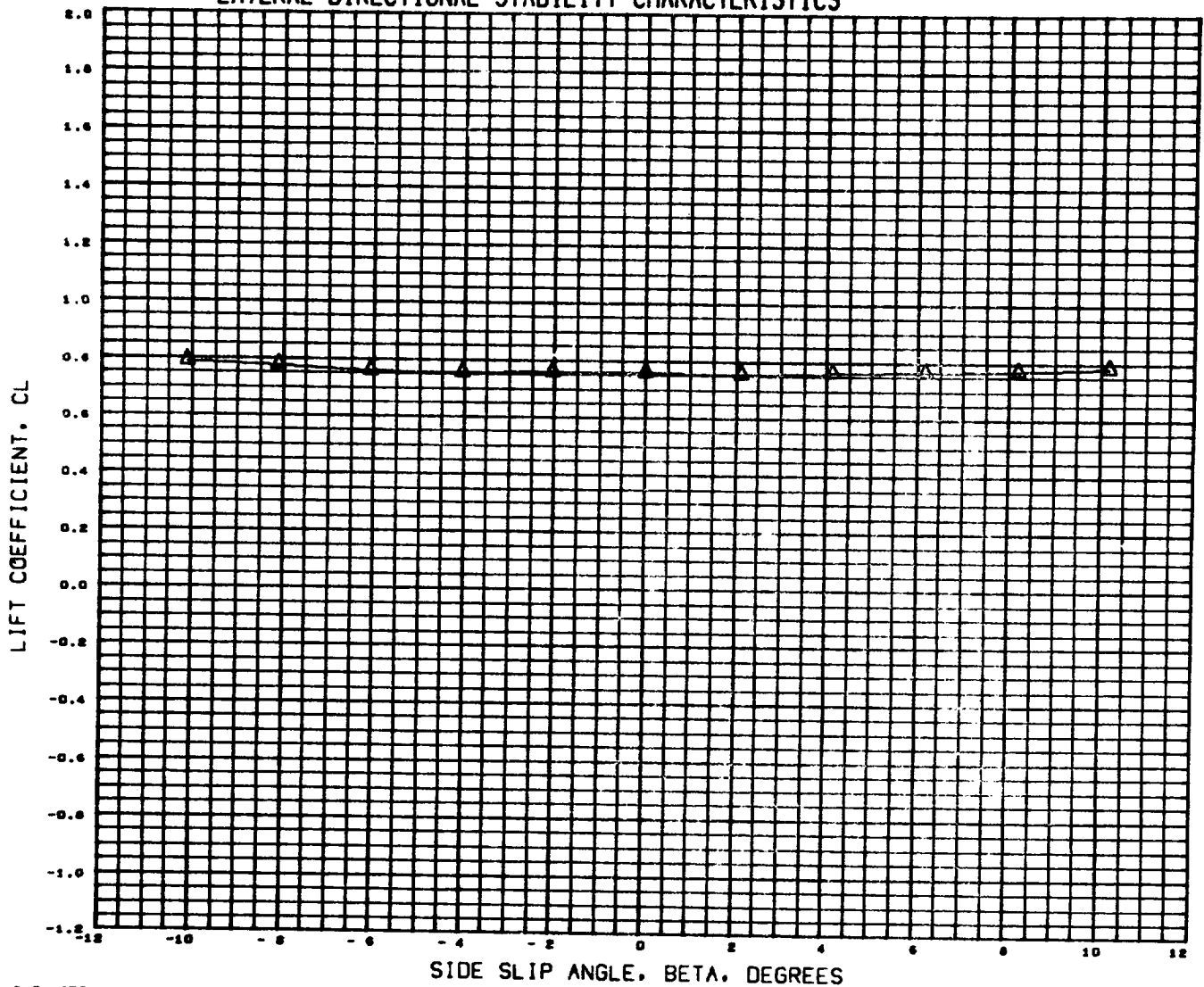
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	M492-HSFC AR11081-1 MODEL	0.000	0.000	0.000	0.000	SREF 4.6225 50.14
(E3405G)	M492-HSFC AR11081-1 MODEL	10.000	0.000	0.000	0.000	LREF 4.3000 1N
(E3405H)	M492-HSFC AR11081-1 MODEL	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3407F)	M492-HSFC AR11081-1 MODEL	0.000	20.000	0.000	0.000	XMRP 2.4000 1N
(E3407H)	M492-HSFC AR11081-1 MODEL	16.000	20.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 0.604

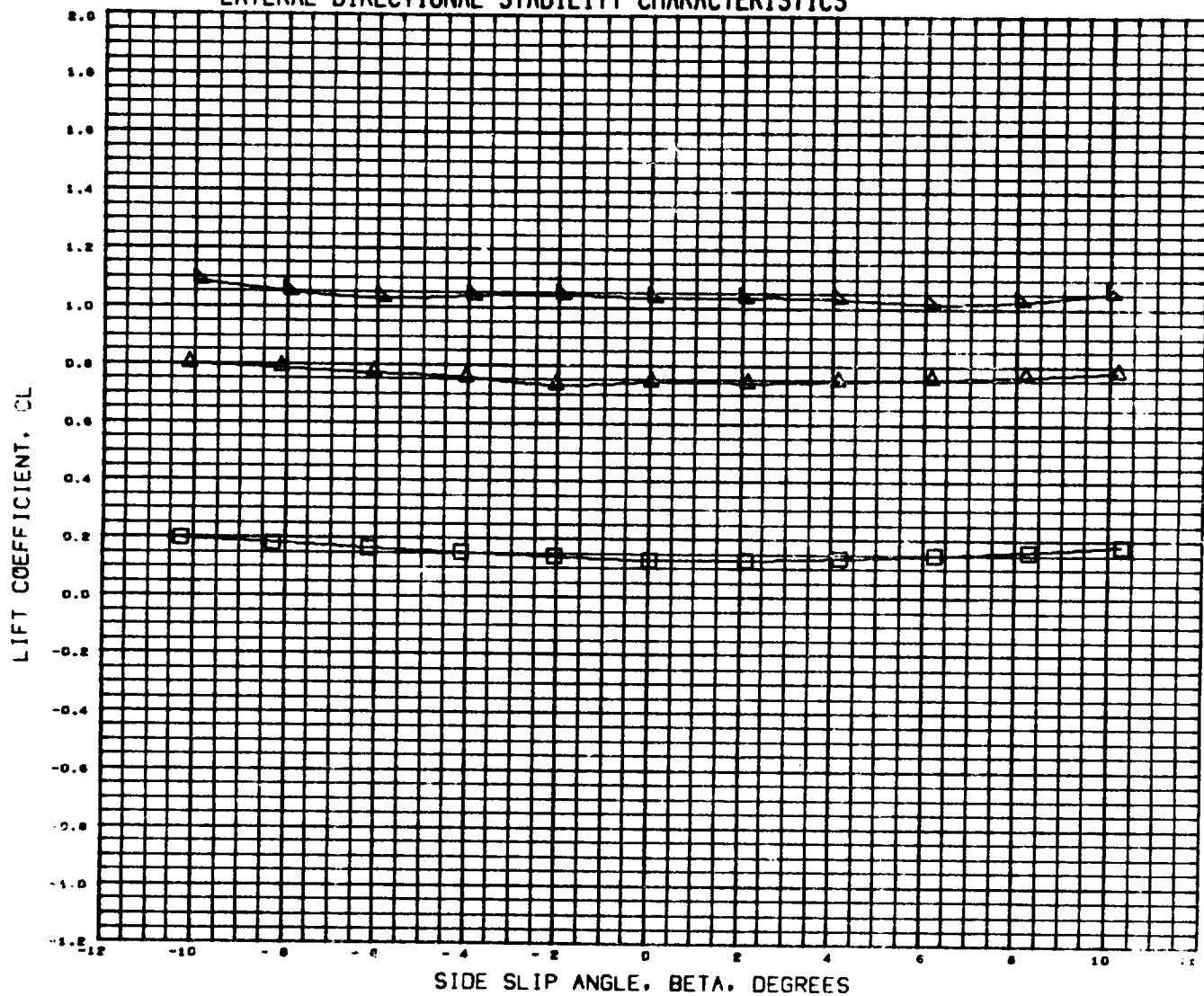
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3403F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 36. IN.
(E3403G)	M492-MSFC AR1901-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

NACH 0.796

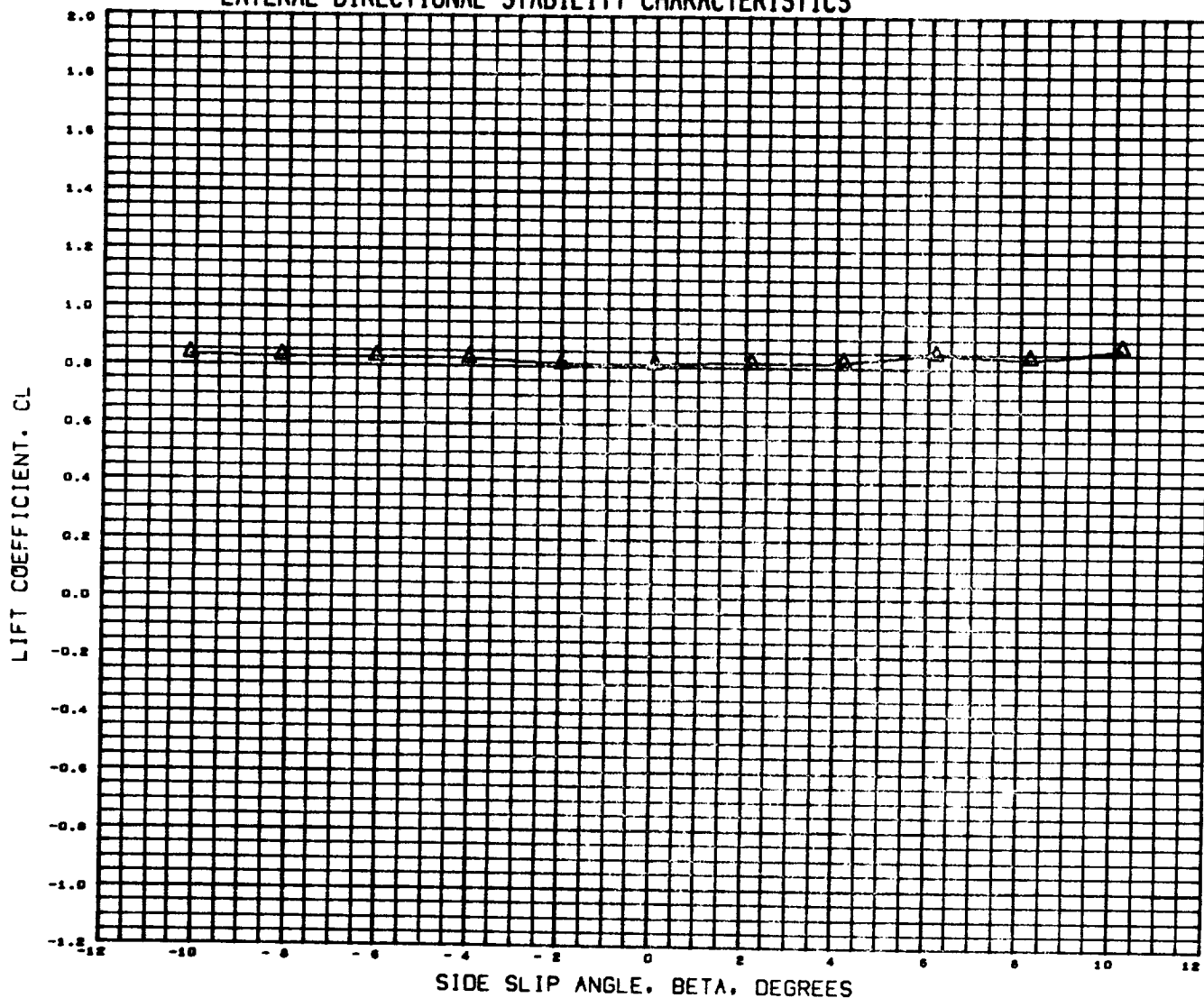
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50.24%
(E3405G)	M492-MSFC AR11901-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 N.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	M492-MSFC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	M492-MSFC AR11901-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.650

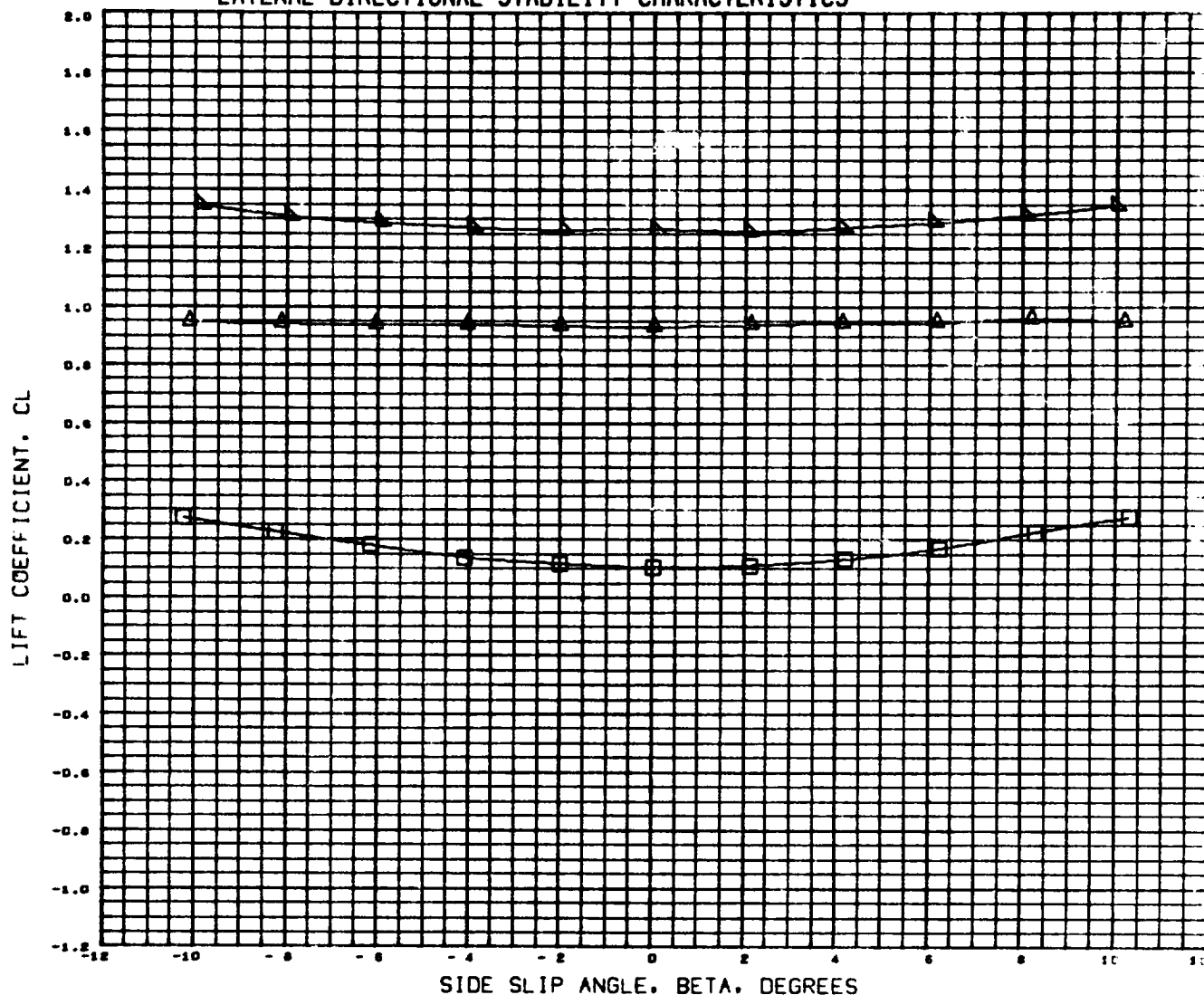
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 90.IN.
(E3405G)	M492-HSFC AR11981-1 MODEL 82WEC12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.951

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30 IN
(E3405G)	M492-M8FC AR11961-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN
(E3407F)	M492-M8FC AR11961-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XWRP 2.4000 IN
(E3407H)	M492-M8FC AR11961-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YWRP 0.0000 IN
						ZWRP 0.0000 IN
						SCALE 0.0025

MACH 1.00

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3405G)	M492-HSFC AR11901-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	M492-HSFC AR11901-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	M492-HSFC AR11901-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 1.197

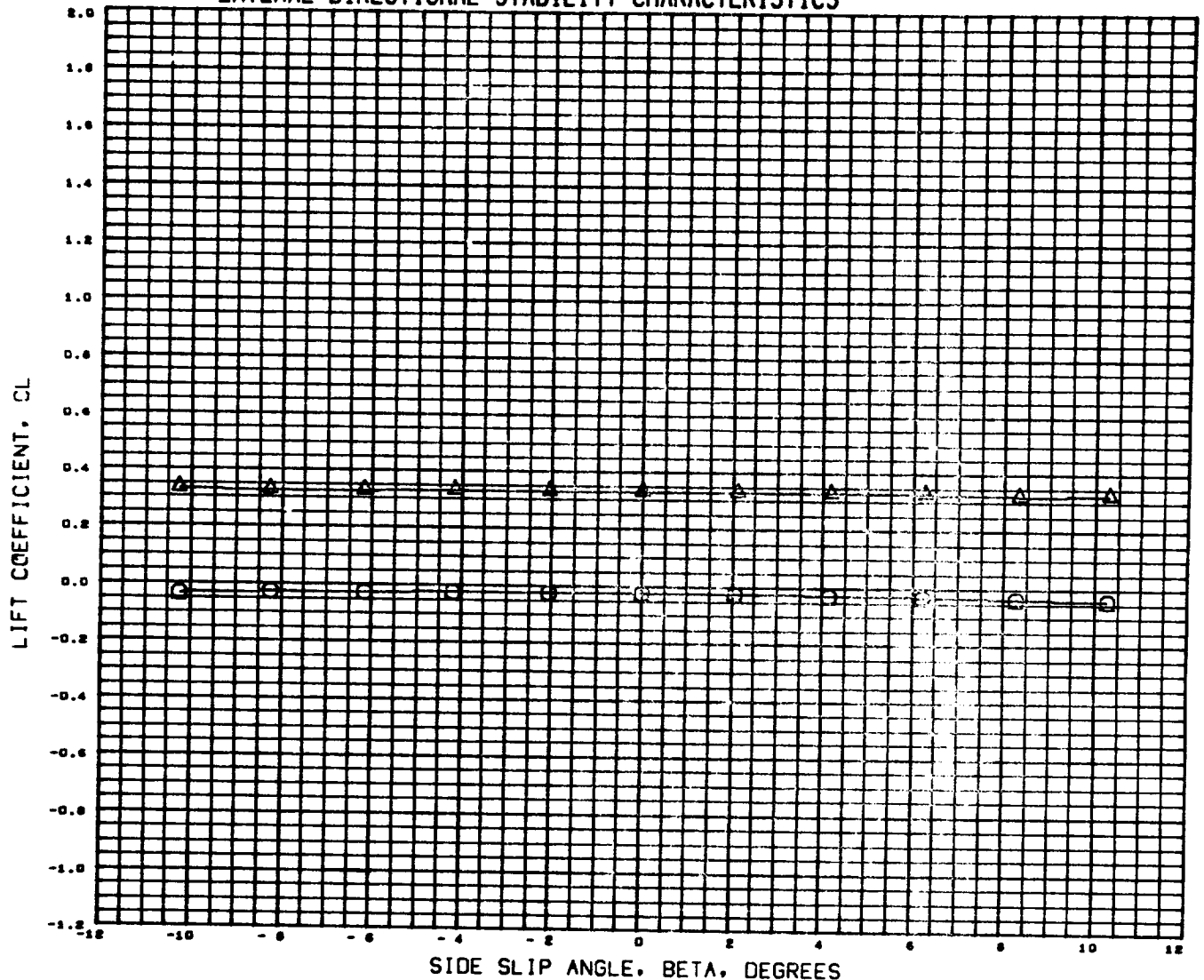
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	CROSS	M492-MSFC AR1198I-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E3405G)		M492-MSFC AR1198I-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 in.
(E3405H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3000 in.
(E3407F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 in.
(E3407H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 in.
							ZMRP 0.0000 in.
							SCALE 0.0025

MACH 1.953

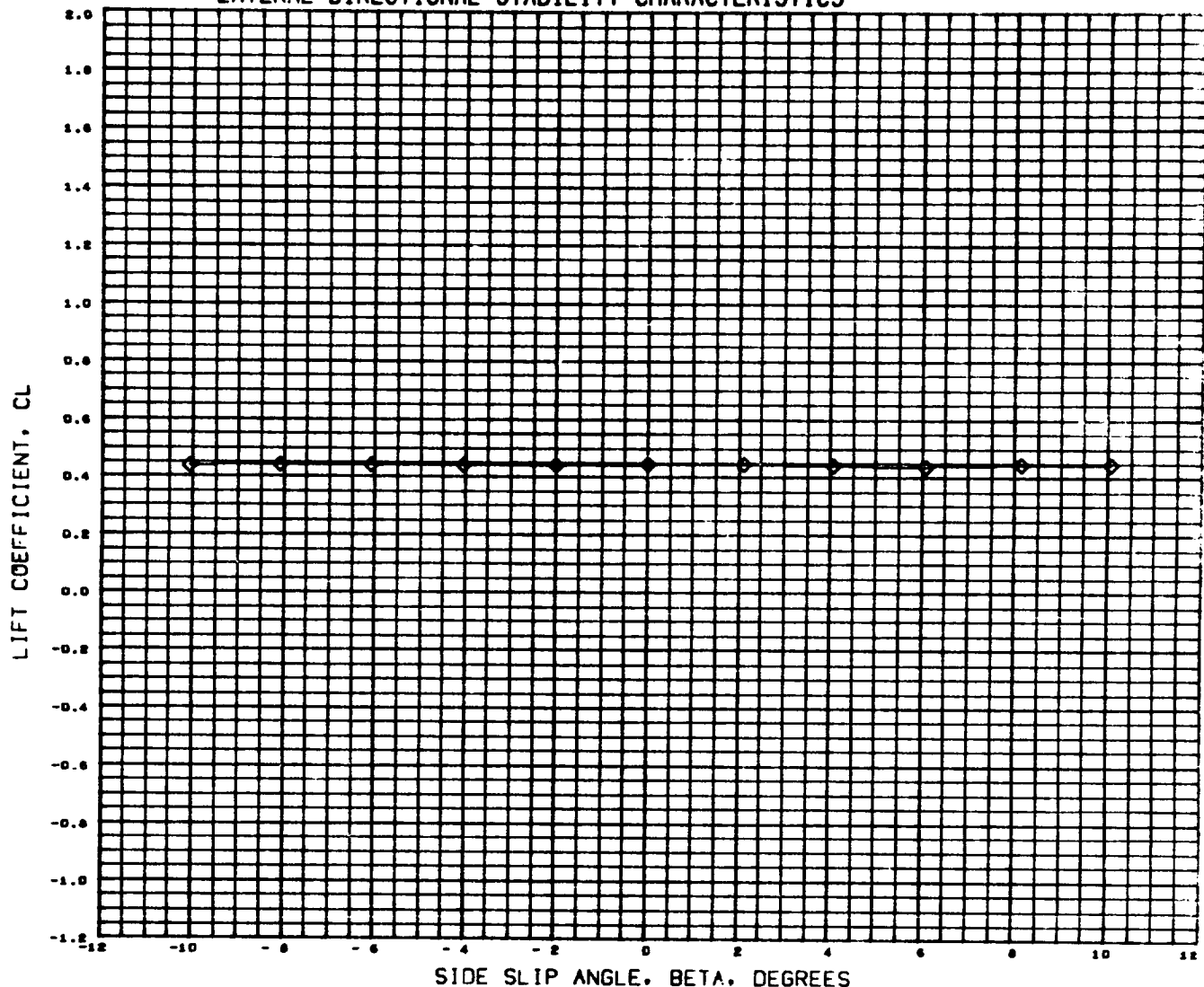
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	M492-HSFC AR1981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3405G)	M492-HSFC AR1981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

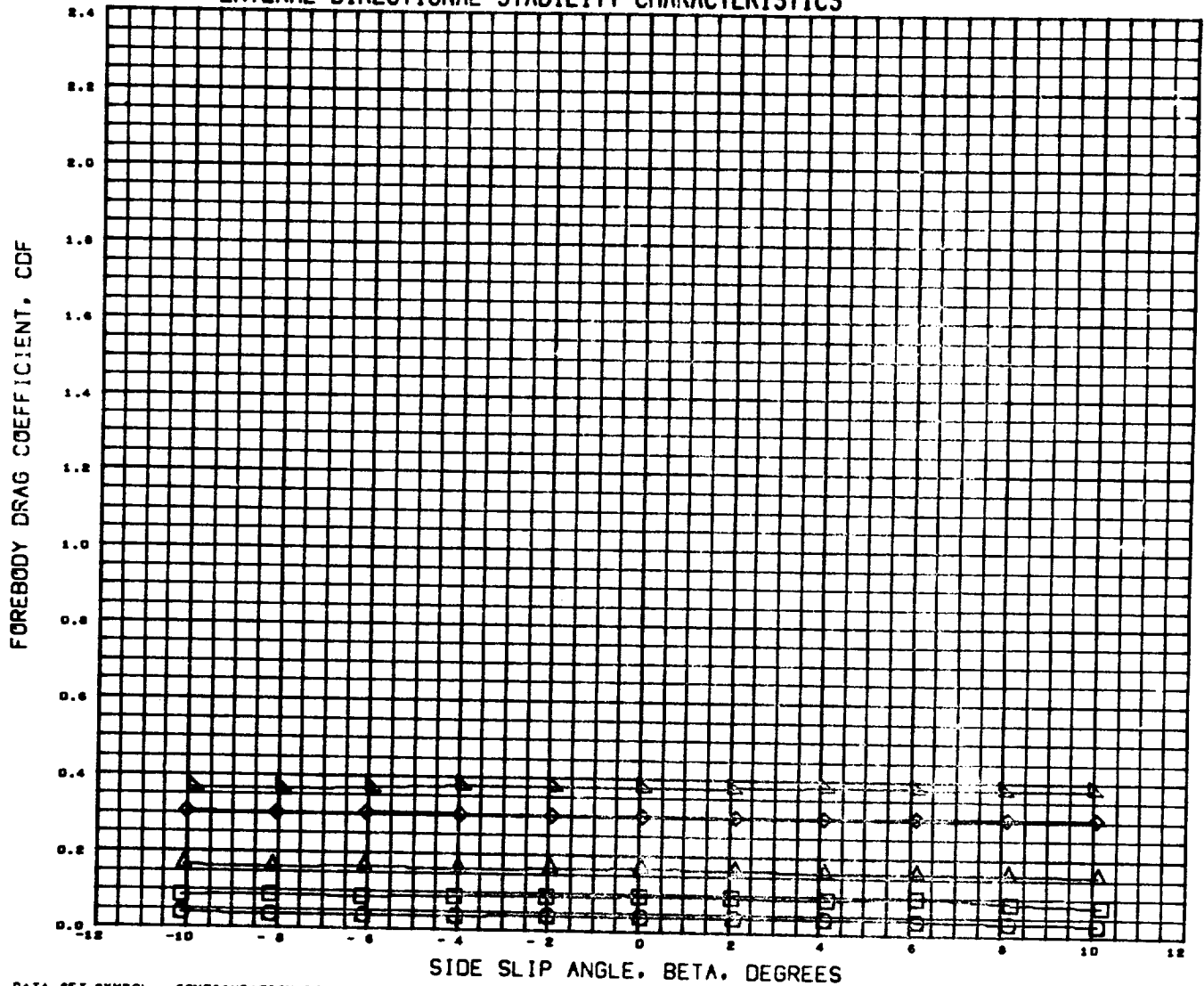
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50..
(E3405G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LRFF	4.3000 IN.
(E3405H)	K492-MSFC AR11981-1 MODEL BZW6C12V2	15.500	0.000	0.000	0.000	SREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	YMRF	2.4000 IN.
(E3407G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRF	0.0000 IN.
						ZMRF	0.0000 IN.
						SCALE	0.0025

MACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N492-M3FC AR11981-1 MODEL	0.000	0.000	0.000	0.000	SREF 4.6225 58. IN.
(E3405G)	N492-M3FC AR11981-1 MODEL	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	N492-M3FC AR11981-1 MODEL	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	N492-M3FC AR11981-1 MODEL	0.000	20.000	0.000	0.000	XMRF 2.4000 IN.
(E3407H)	N492-M3FC AR11981-1 MODEL	16.000	20.000	0.000	0.000	YMRF 0.0000 IN.
						ZMRF 0.0000 IN.
						SCALE 0.0025

MACH 0.804

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

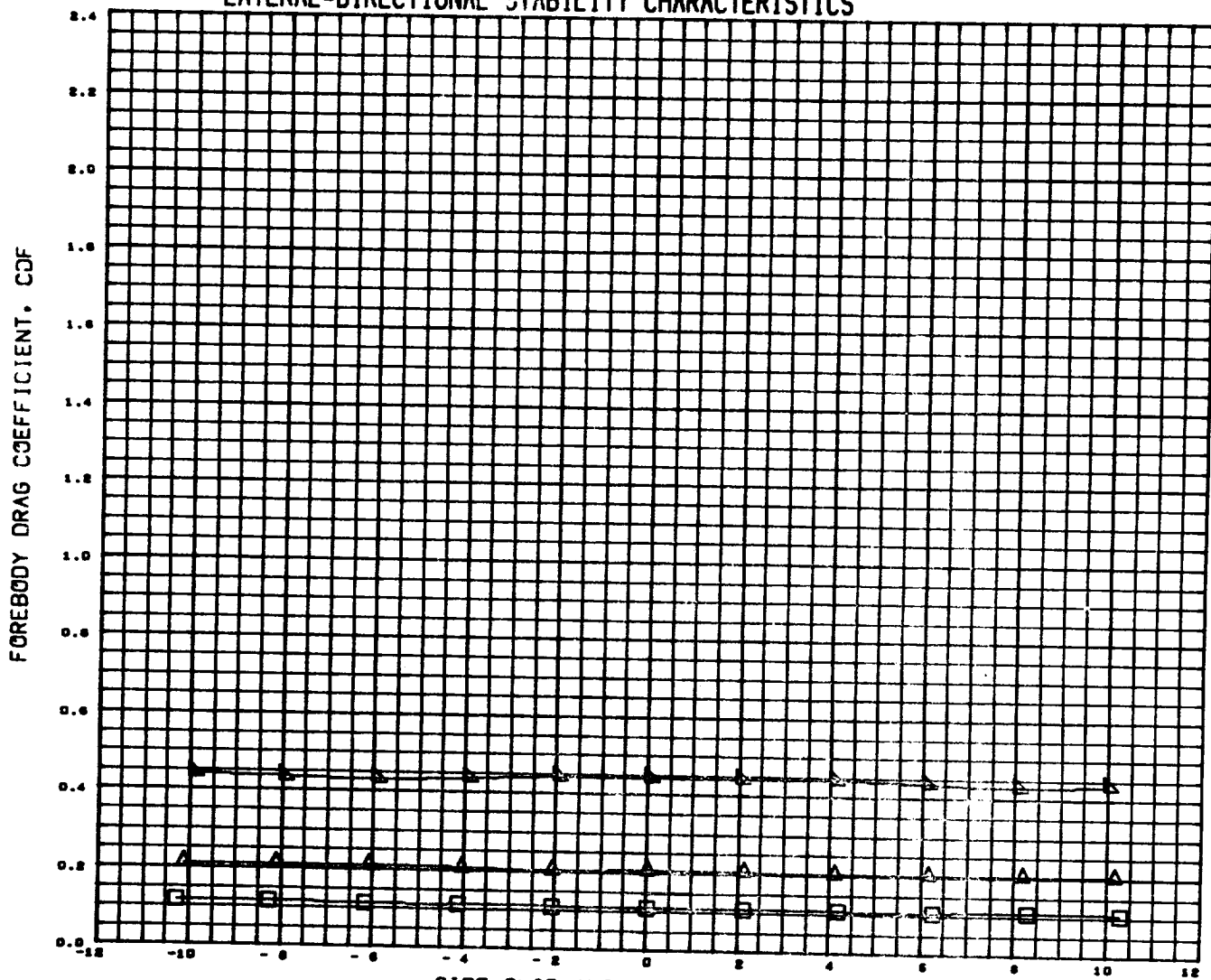


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50.1N
(E3405G)	M492-MSFC AR11981-1 MODEL BZW6C12VZ	10.000	0.000	0.000	0.000	LREF 4.3000 1N
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 1N
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YNRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 0.798

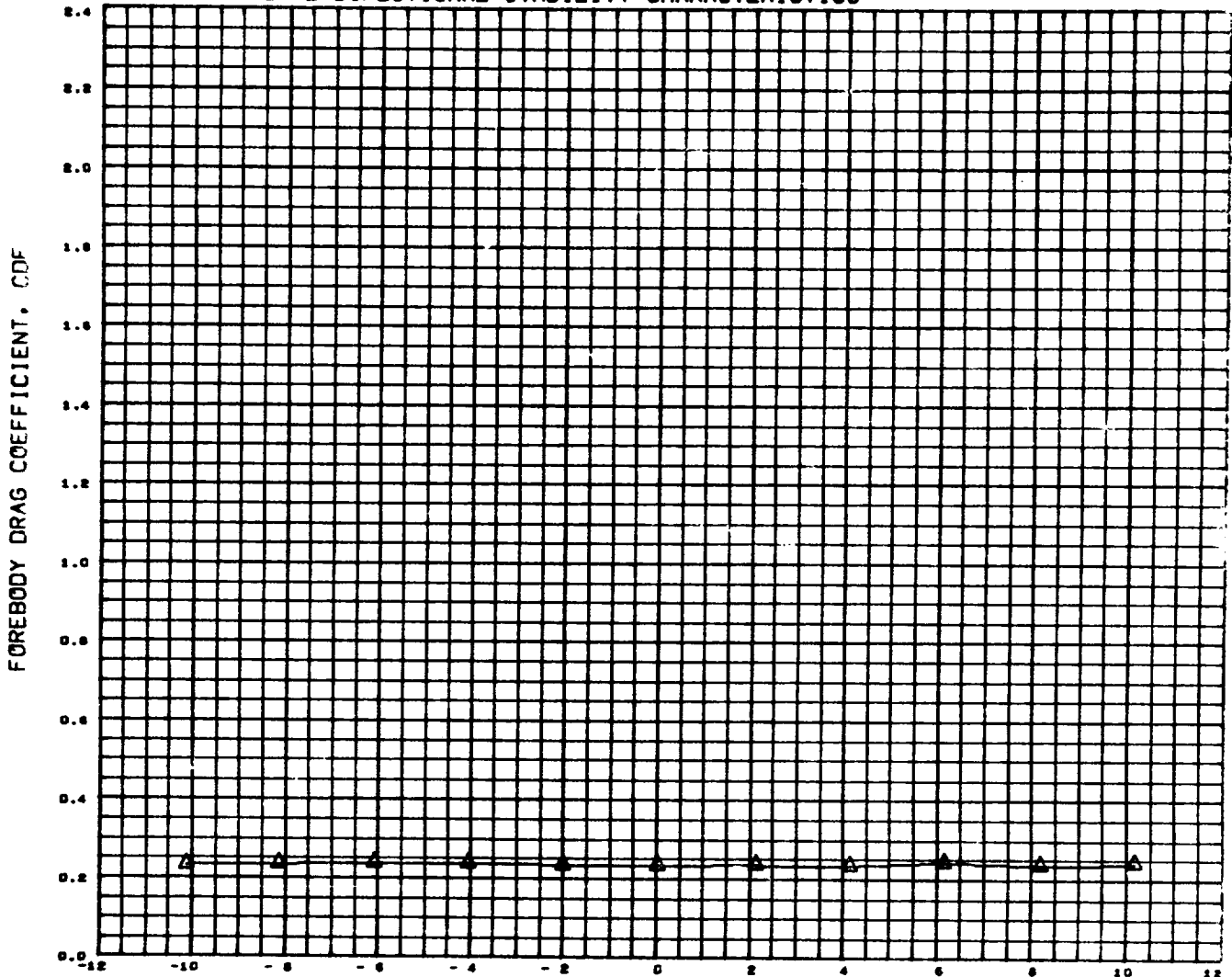
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3405G)	M492-MSFC AR11981-1 MODEL BZW6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF 4.3000 IN.
(E3405I)	M492-MSFC AR11981-1 MODEL BZW6C12V2	0.000	20.000	0.000	0.000	XHRP 2.4000 IN.
(E3405J)	M492-MSFC AR11981-1 MODEL BZW6C12V2	16.000	20.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.888

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

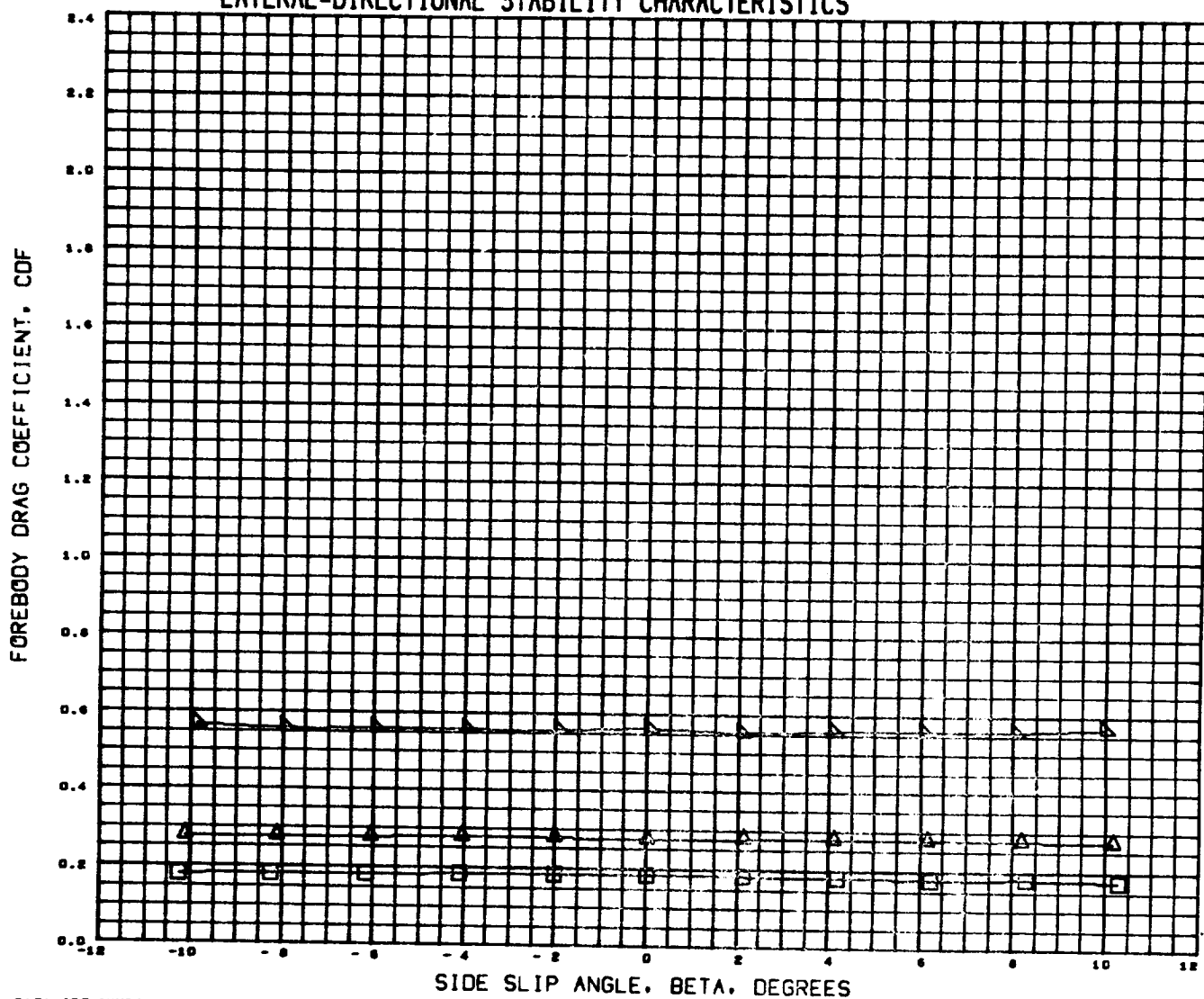


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3409F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50.2N
(E3409G)	M492-MSFC AR11991-1 MODEL BW6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 1N
(E3409H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF	4.3000 1N
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 1N
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 1N
						ZMRP	0.0000 1N
						SCALE	0.0025

MACH 0.951

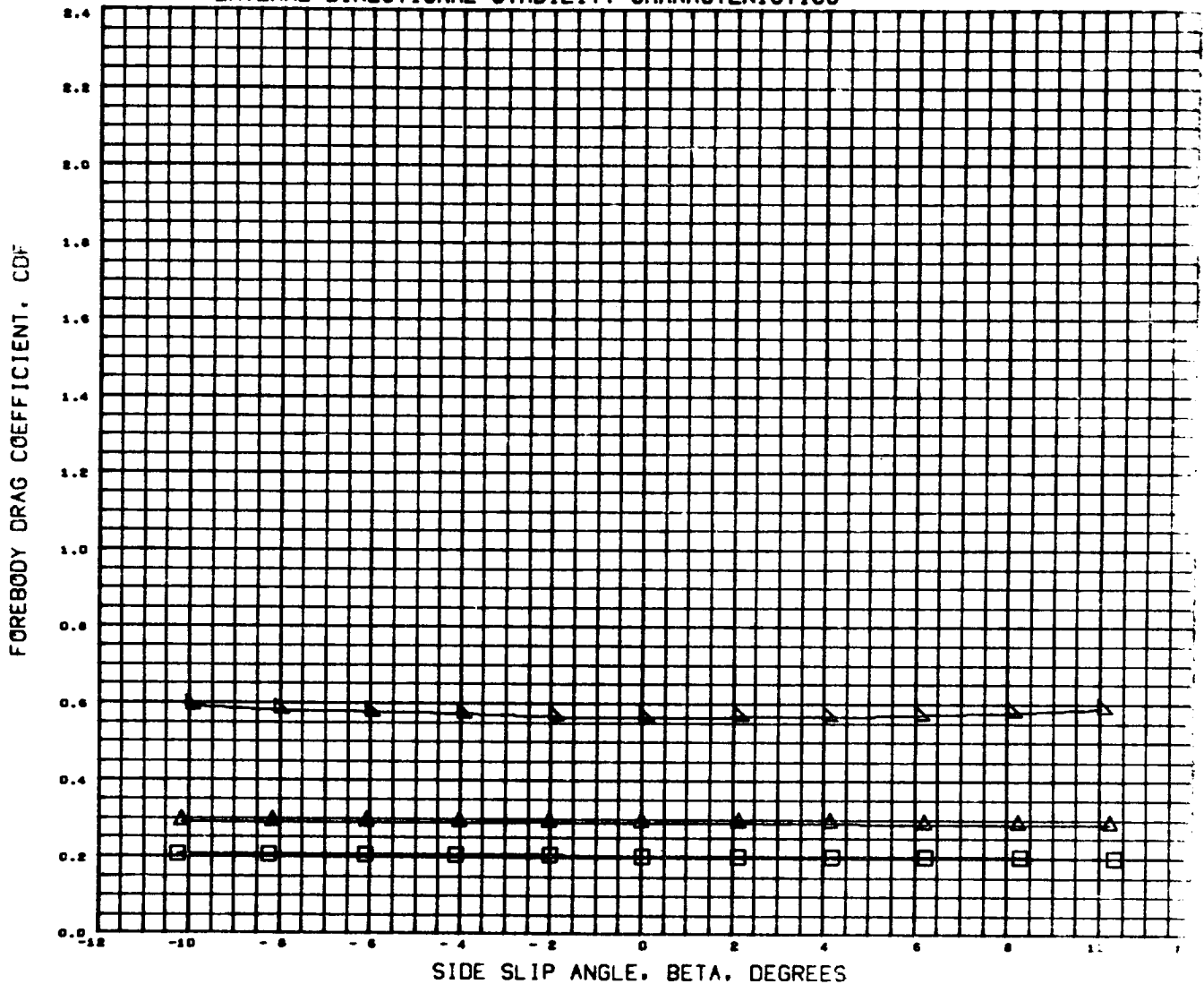
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3405G)	M492-NSFC AR1190I-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	M492-NSFC AR1190I-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XNRP	2.4000 IN.
(E3407H)	M492-NSFC AR1190I-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YNRP	0.0000 IN.
						ZNRP	0.0000 IN.
						SCALE	0.0025

MACH 1.001

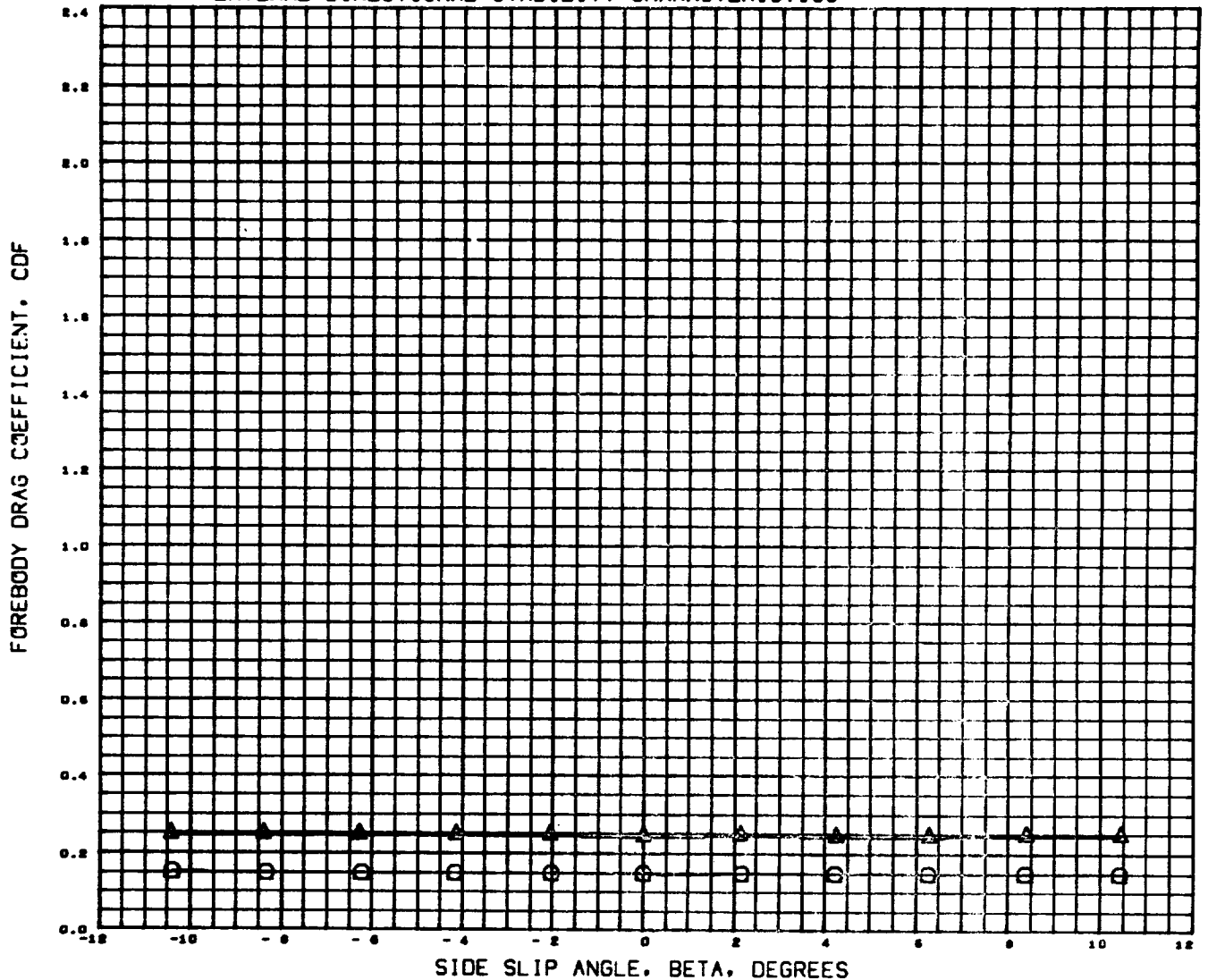
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE	INFORMATIC
(E3403F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50.1
(E3403G)	M492-MBFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 12
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 12
(E3403F)	M492-MBFC AR11981-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP	2.4000 12
(E3403H)	M492-MBFC AR11981-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP	0.0000 12
						ZMRP	0.0000 12
						SCALE	0.000

MACH 1.197

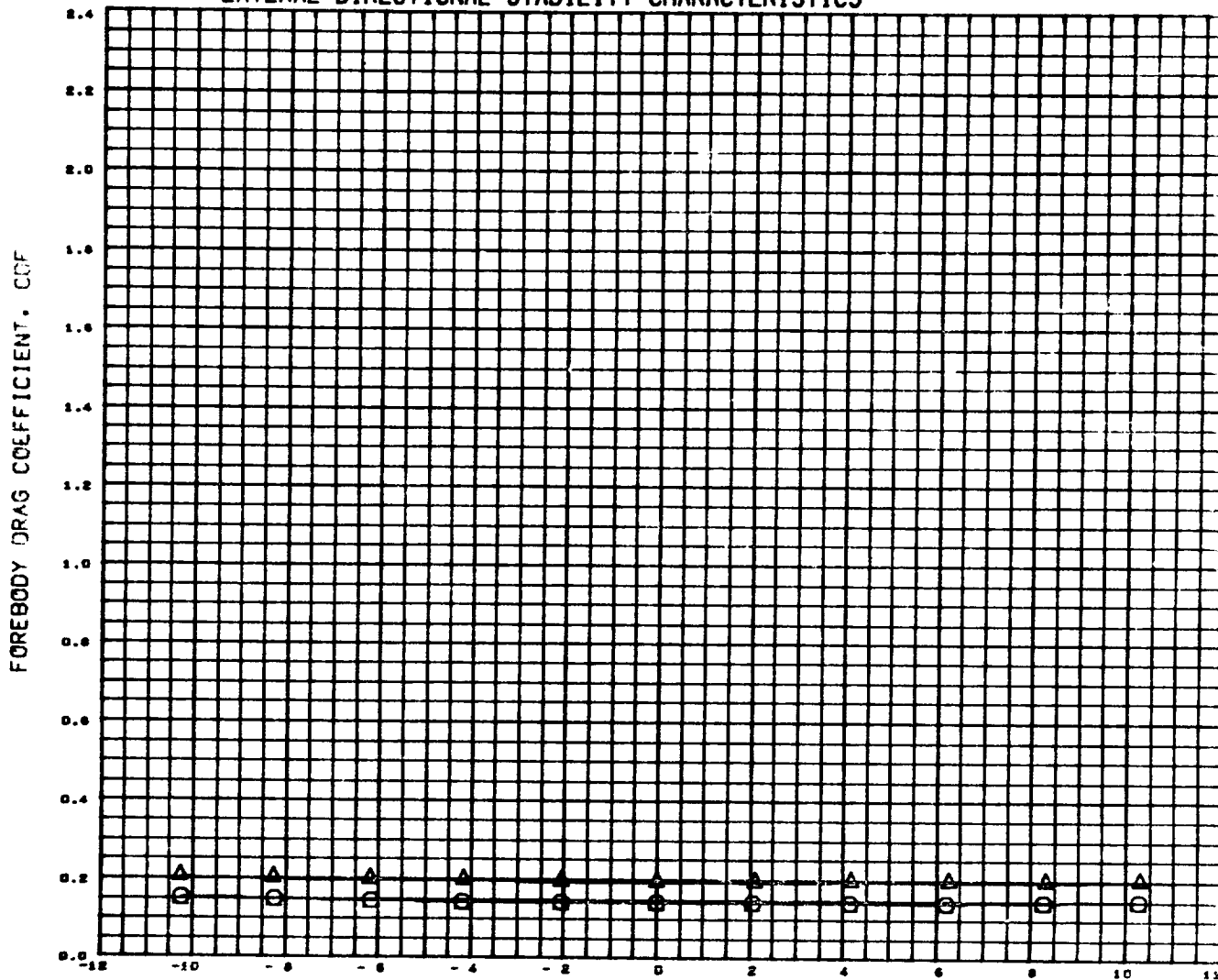
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 50. IN.
(E34056)	M492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.953

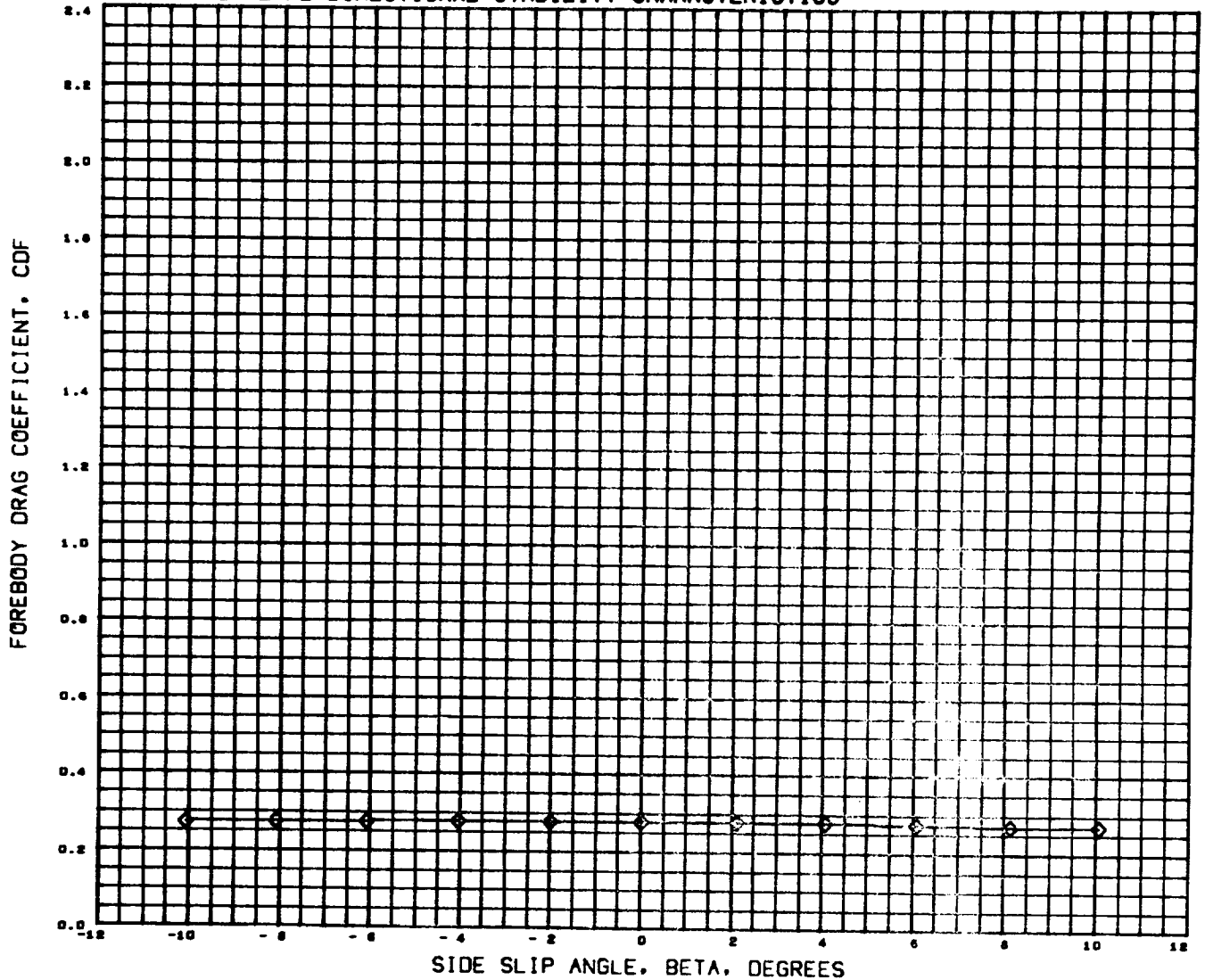
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	M492-M8FC AR11001-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6221 80.1P
(E3405G)	M492-M8FC AR11001-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 1P
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	SREF 4.3000 1P
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XNRF 2.4000 1P
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YNRF 0.0000 1P
						ZNRF 0.0000 1P
						SCALE 0.002

MACH 3.400

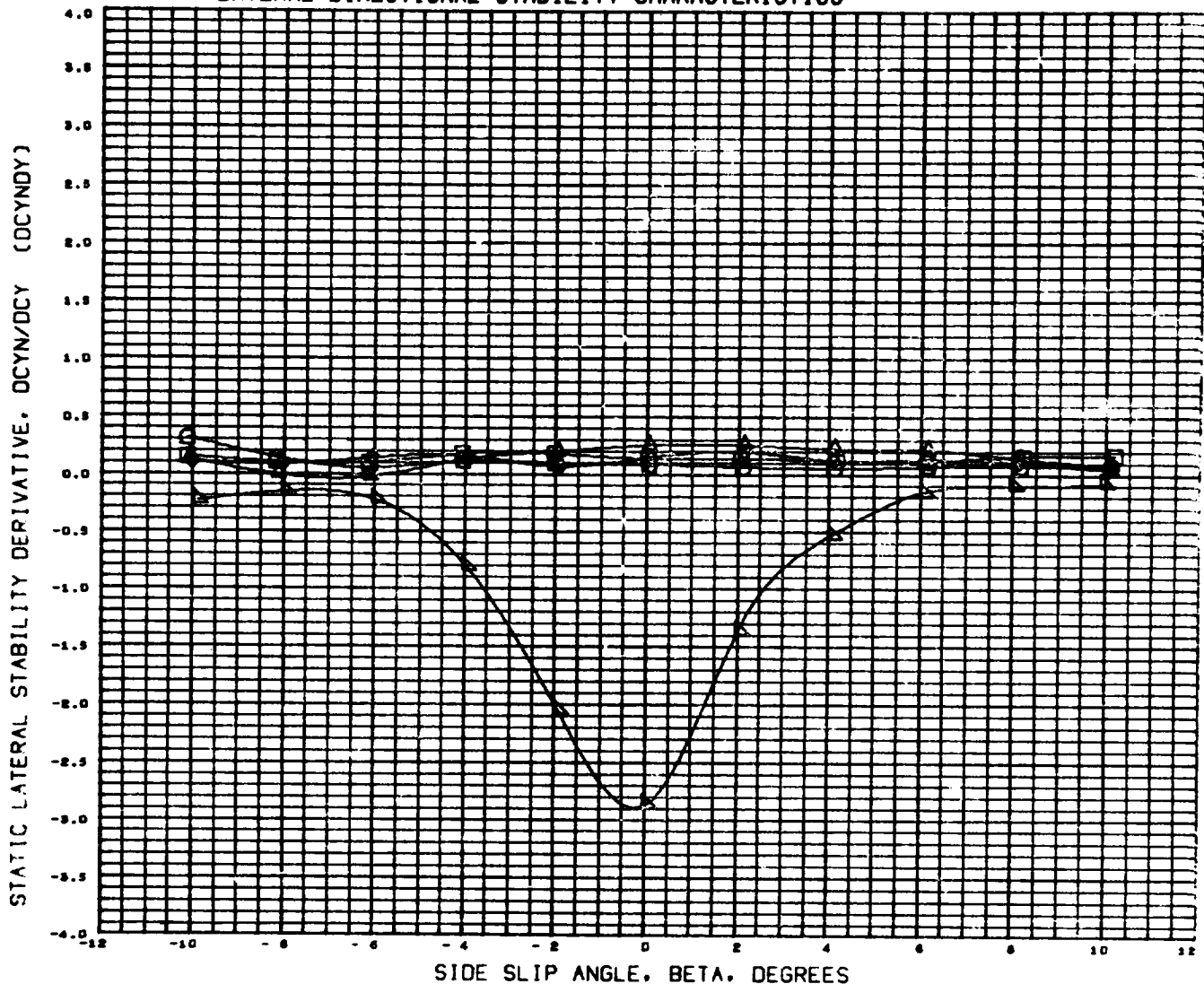
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3405G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.000	0.000	0.000	0.000	LREF	4.3000 IN.
(E3405H)	M492-HSFC AR11961-1 MODEL B2W6C12V2	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XHRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YHRP	0.0000 IN.
						ZHRP	0.0000 IN.
						SCALE	0.0025

MACH 4.959

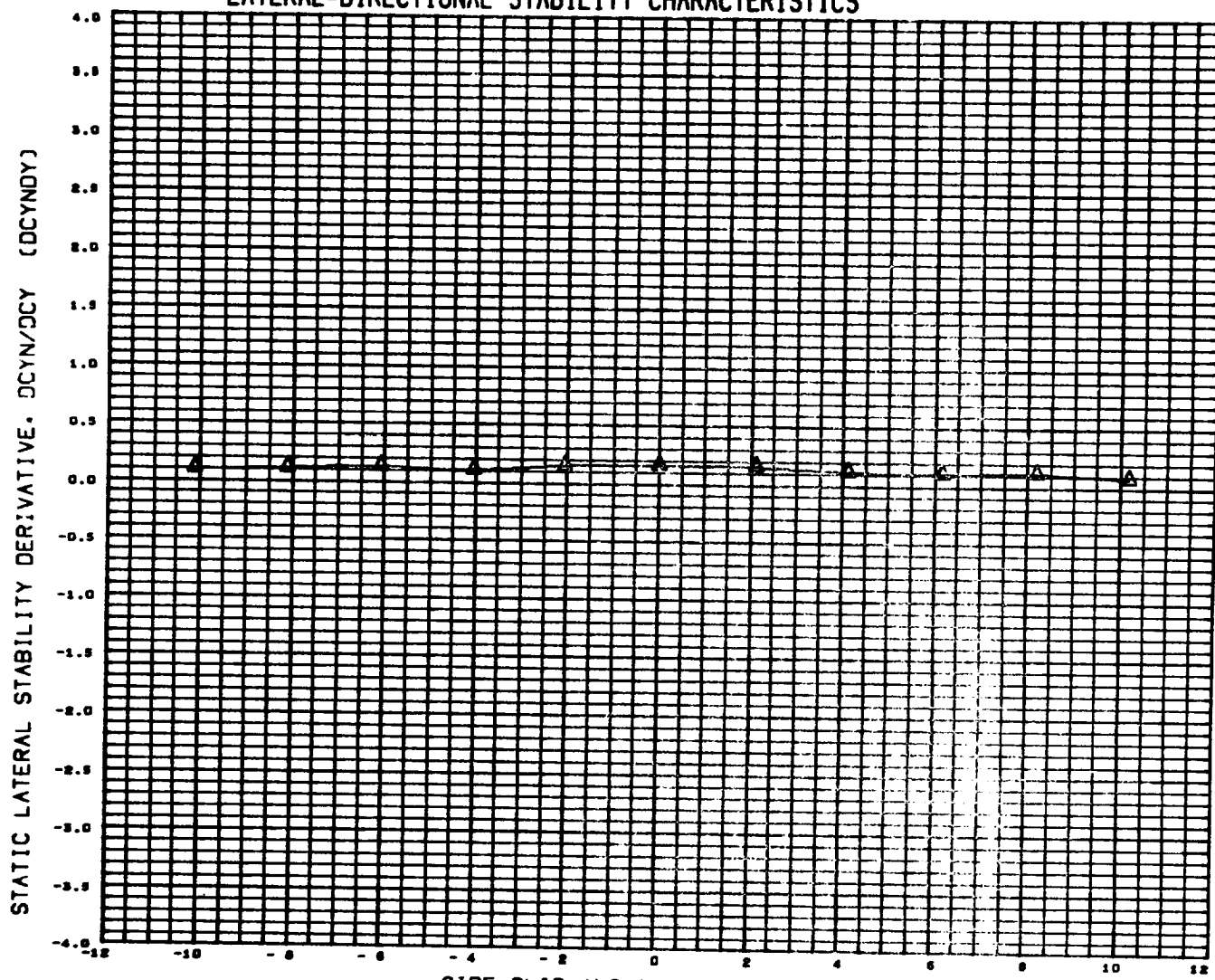
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	N492-MSFC AR11981-1 MODEL B2W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 30.1N
(E3405G)	N492-MSFC AR11981-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 1N
(E3405H)	N492-MSFC AR11981-1 MODEL B2W6C12V2	15.500	0.000	0.000	0.000	BREF 4.3000 1N
(E3407F)	N492-MSFC AR119A1-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	XMRP 2.4000 1N
(E3407H)	N492-MSFC AR119A1-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	YMRP 0.0000 1N
						ZMRP 0.0000 1N
						SCALE 0.0025

MACH 0.604

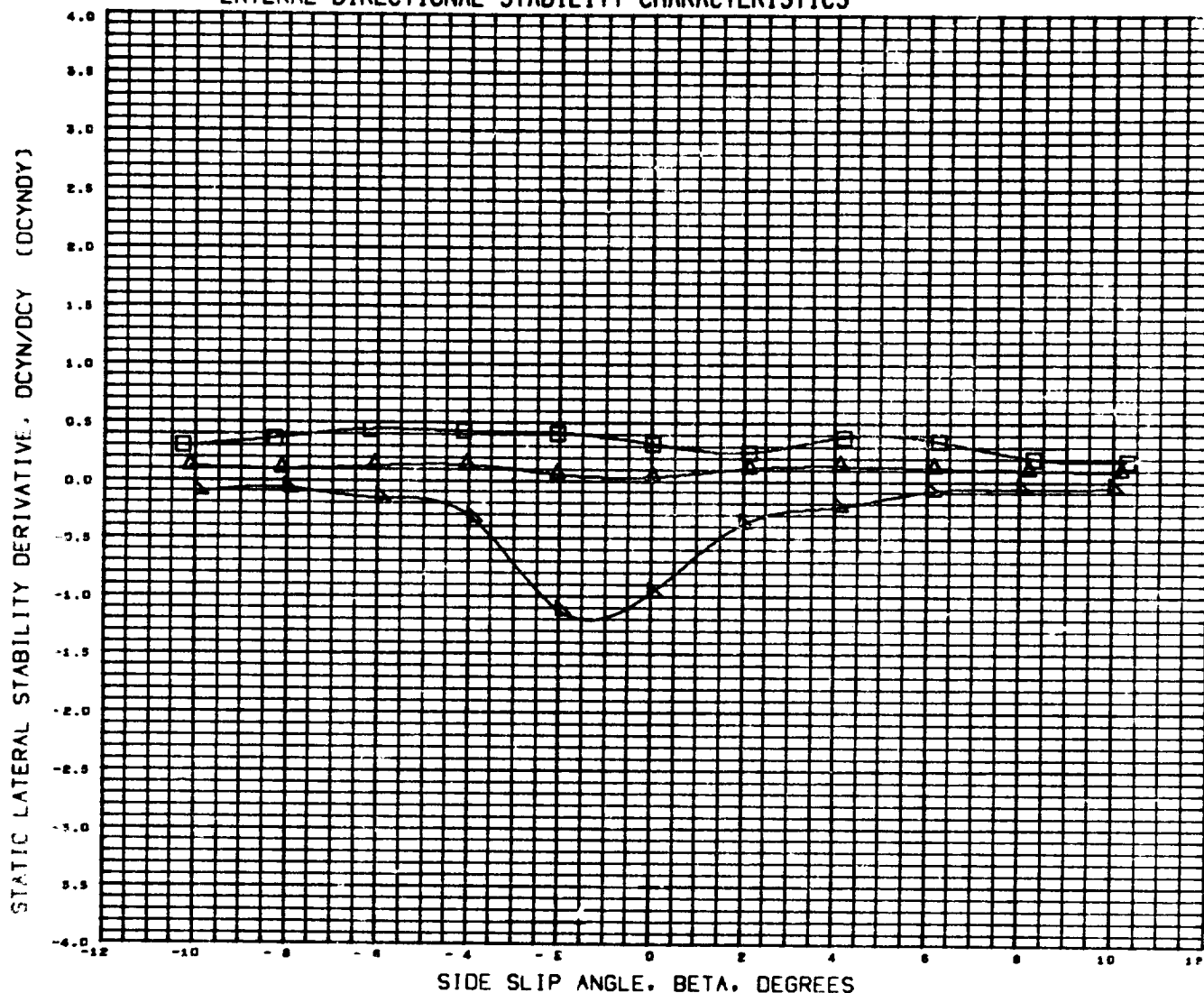
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 30.IN.
(E3405G)	N492-NSFC AR11901-1 MODEL BZW6C12V2	10.000	0.000	0.000	0.000	LRZF	4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.000	0.000	0.000	0.000	BREF	4.3000 IN.
(E3407F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP	2.4000 IN.
(E3407H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.798

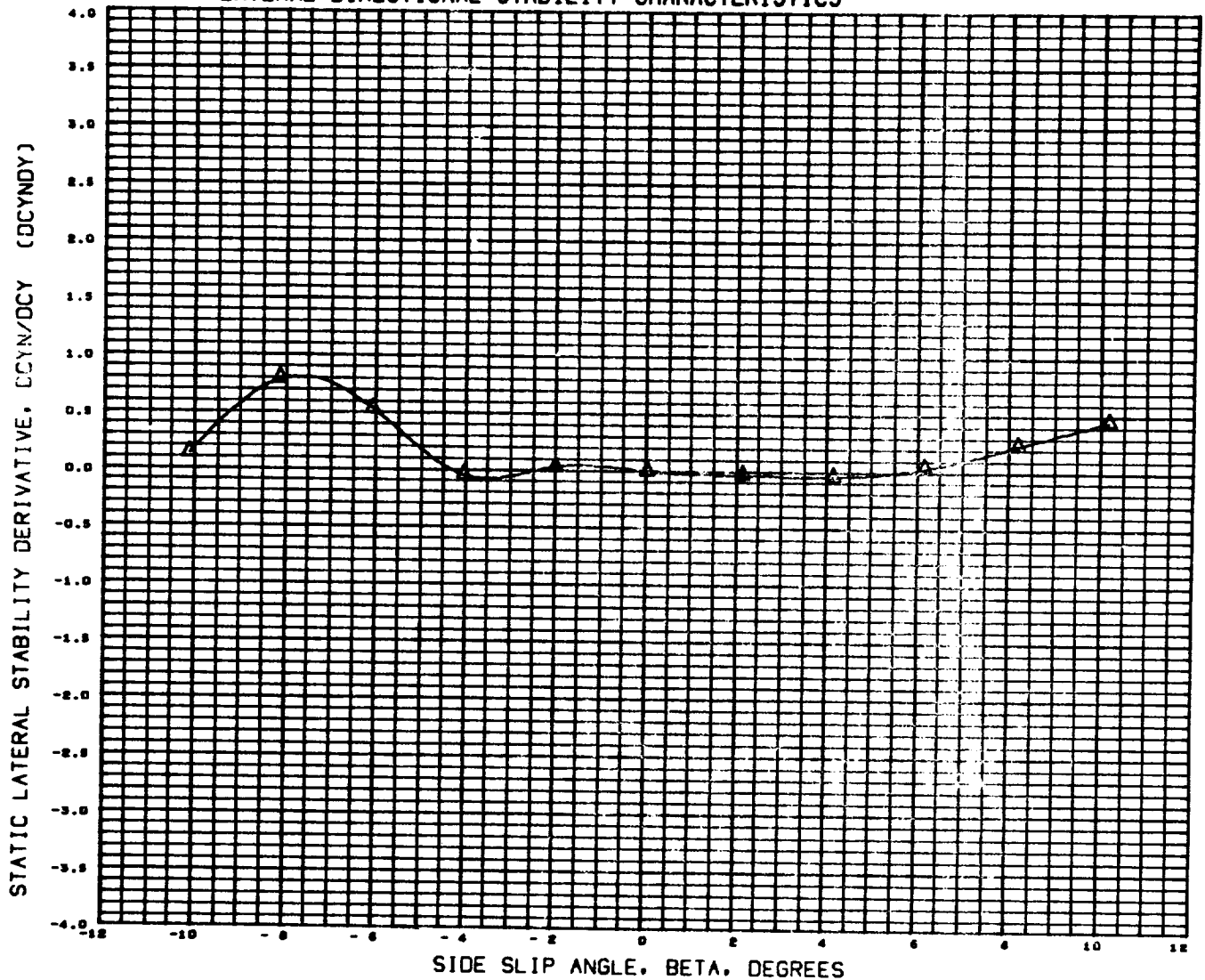
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50 IN.
(E3405G)	M497-HSFC AR1198-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3407F)	M492-HSFC AR1198-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	YMRF 2.4000 IN.
(E3407H)	M492-HSFC AR1198-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	ZMRF 0.0000 IN.
						SCALE 0.0025

MACH 5.898

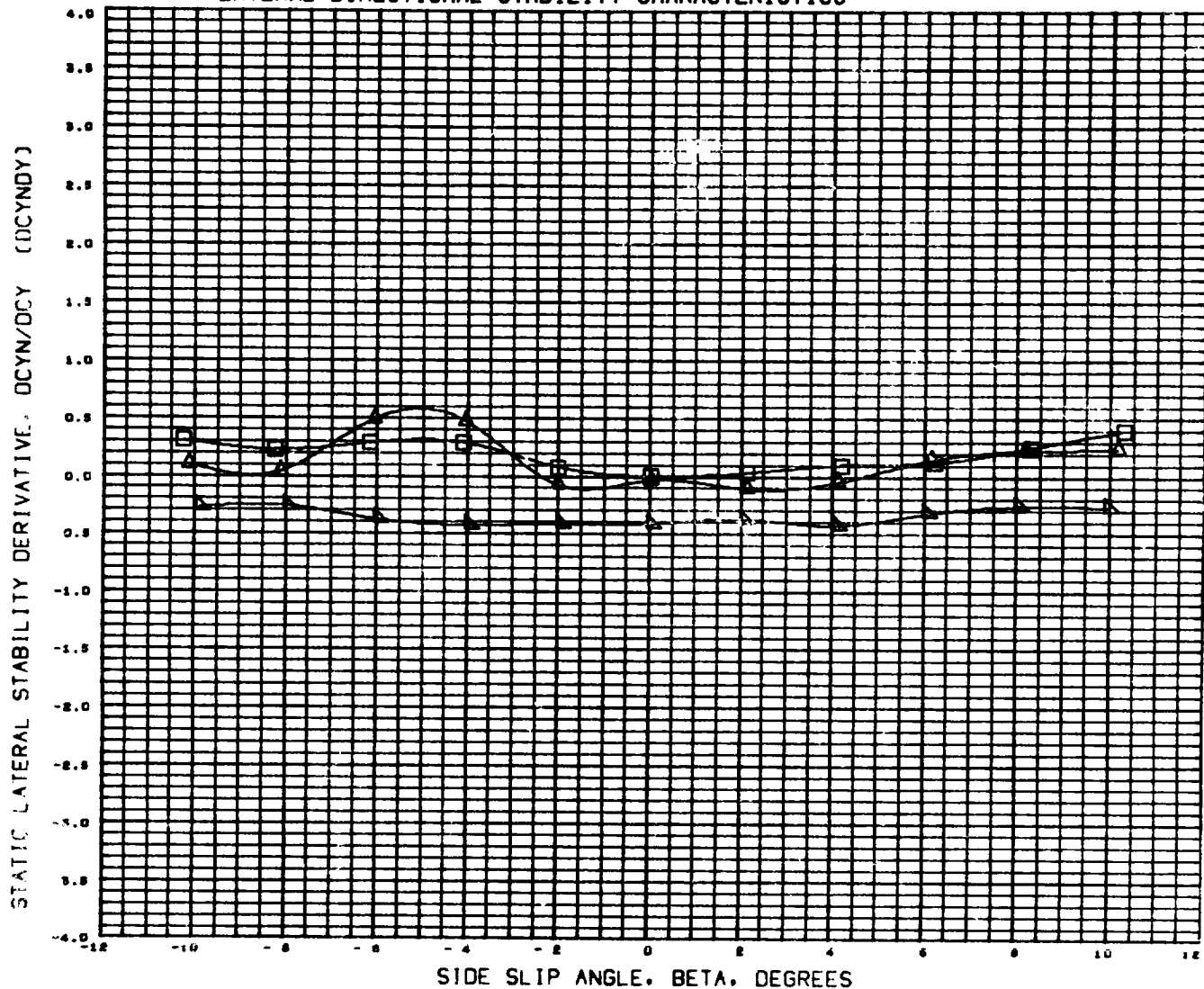
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6223 36. IN.
(E3405G)	M492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0023

MACH 0.951

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

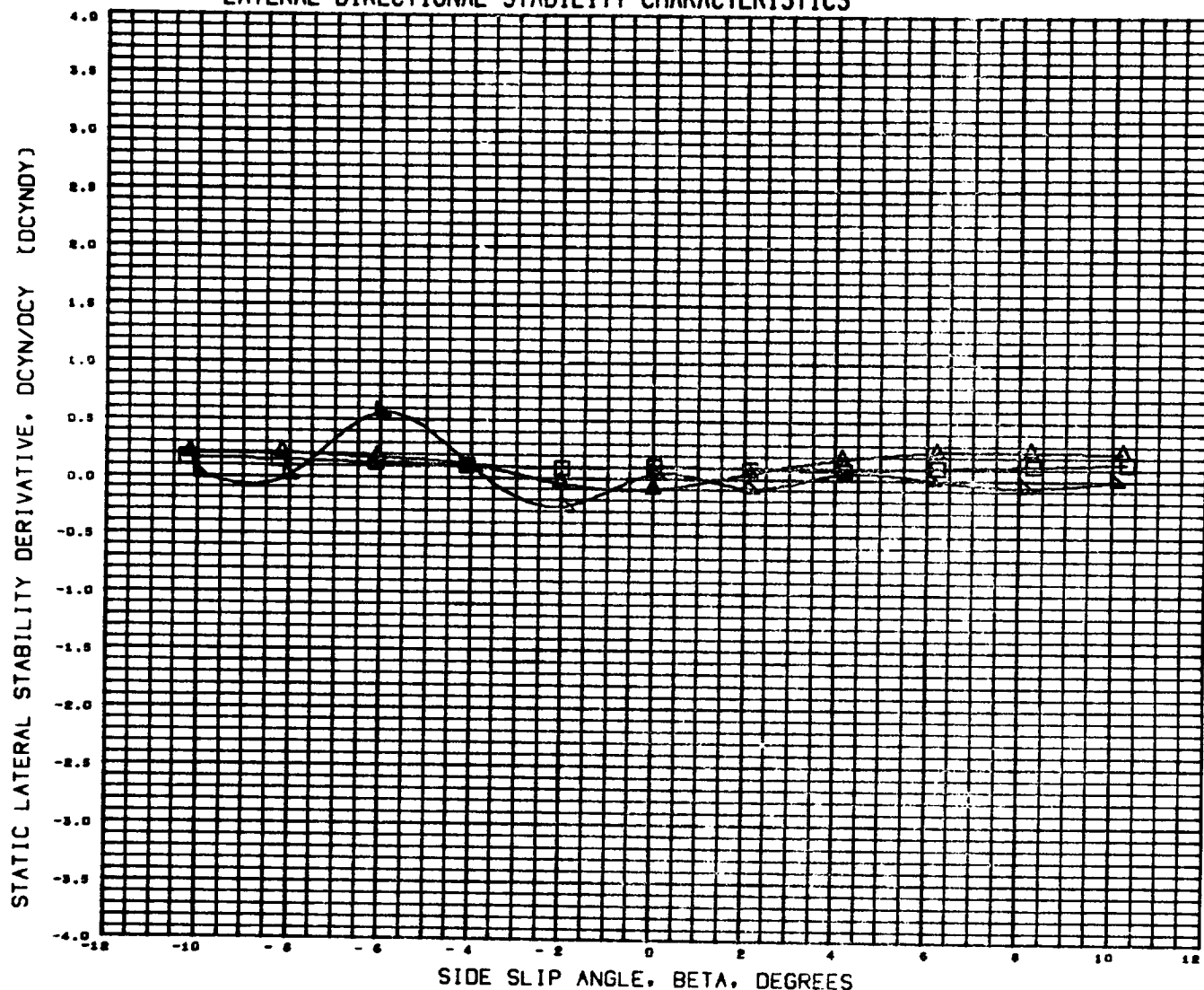


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN
(E3405G)	M492-HSFC AR1198-1 MODEL B2W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN
(E3407F)	M492-HSFC AR1198-1 MODEL B2W6C12V2	0.000	20.000	0.000	0.000	YMRP 2.4000 IN
(E3407H)	M492-HSFC AR1198-1 MODEL B2W6C12V2	16.000	20.000	0.000	0.000	ZMRP 0.0000 IN
						SCALE 0.0025

MACH

001

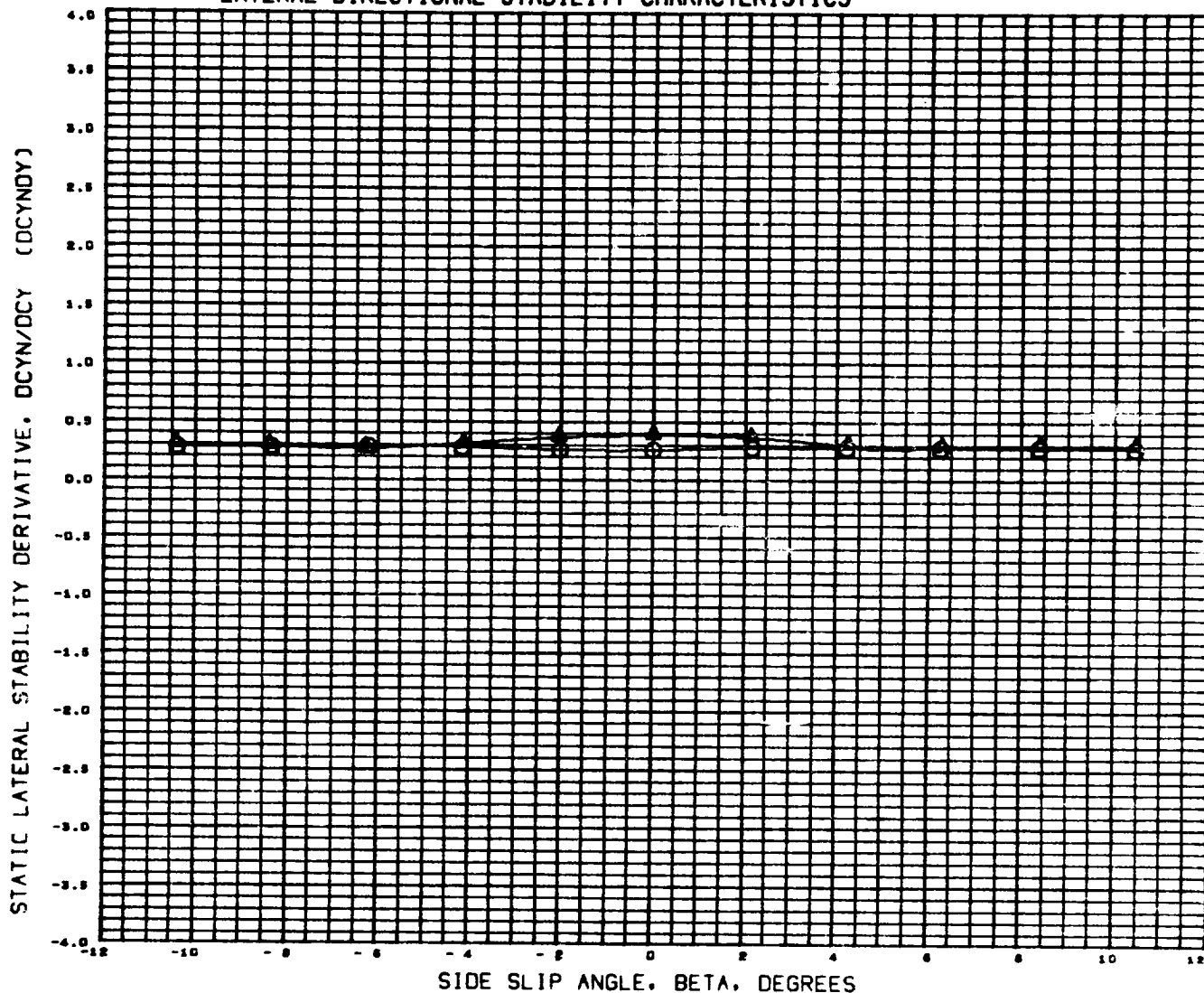
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3405F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50.1N.
(E3405G)	M49Z-MSFC AR11901-1 MODEL BZW6C12V2	10.000	0.000	0.000	0.000	LREF	4.3000 1N.
(E3405H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 1N.
(E3407F)	M49Z-MSFC AR11901-1 MODEL BZW6C12V2	0.000	20.000	0.000	0.000	XRRF	2.4000 1N.
(E3407H)	M49Z-MSFC AR11901-1 MODEL BZW6C12V2	16.000	20.000	0.000	0.000	YRRF	0.0000 1N.
						ZRRF	0.0000 1N.
						SCALE	0.0025

MACH 1.197

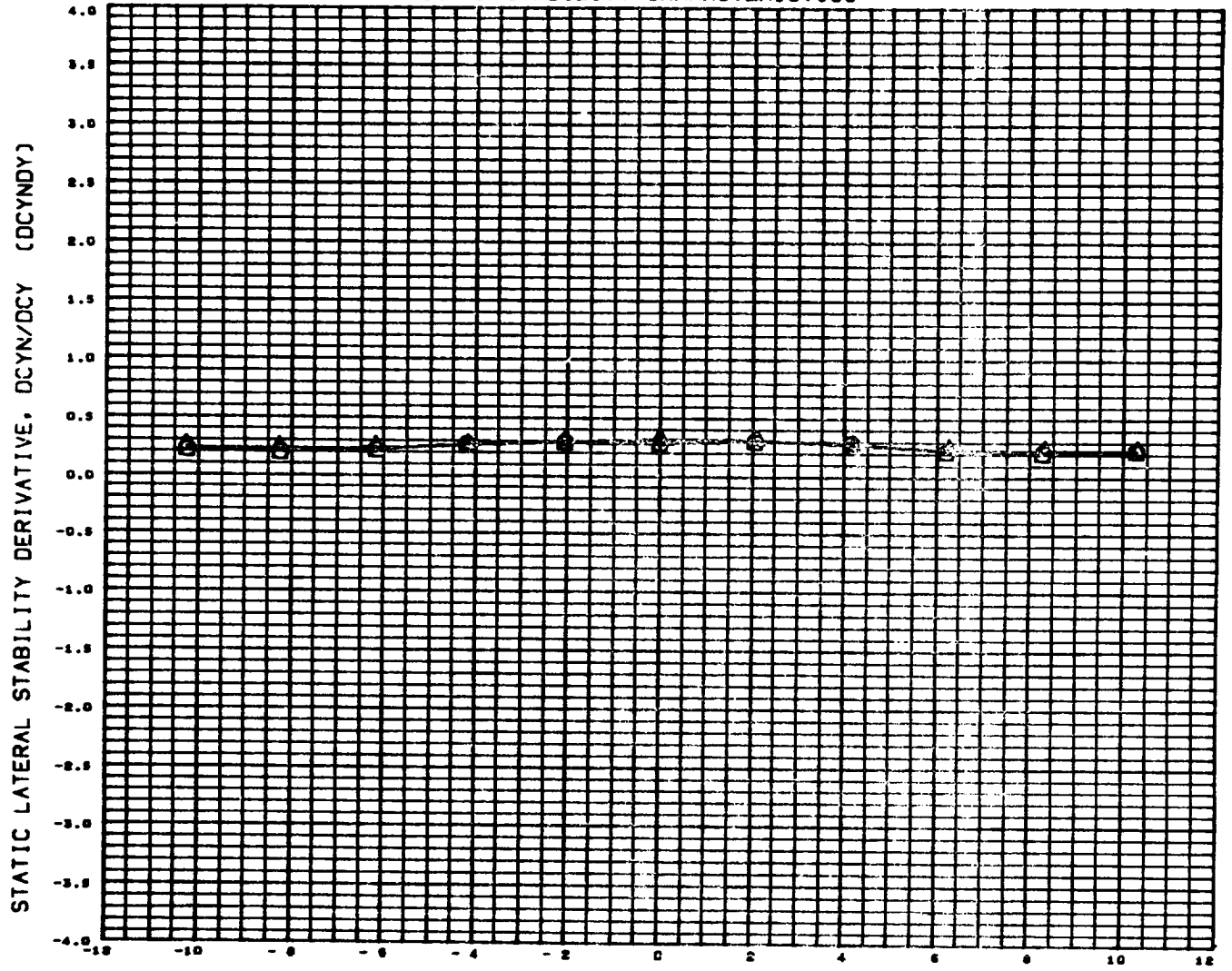
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3403F)	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 80.1"
(E3403G)	M492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3403H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3403I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3403J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	16.000	20.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.930

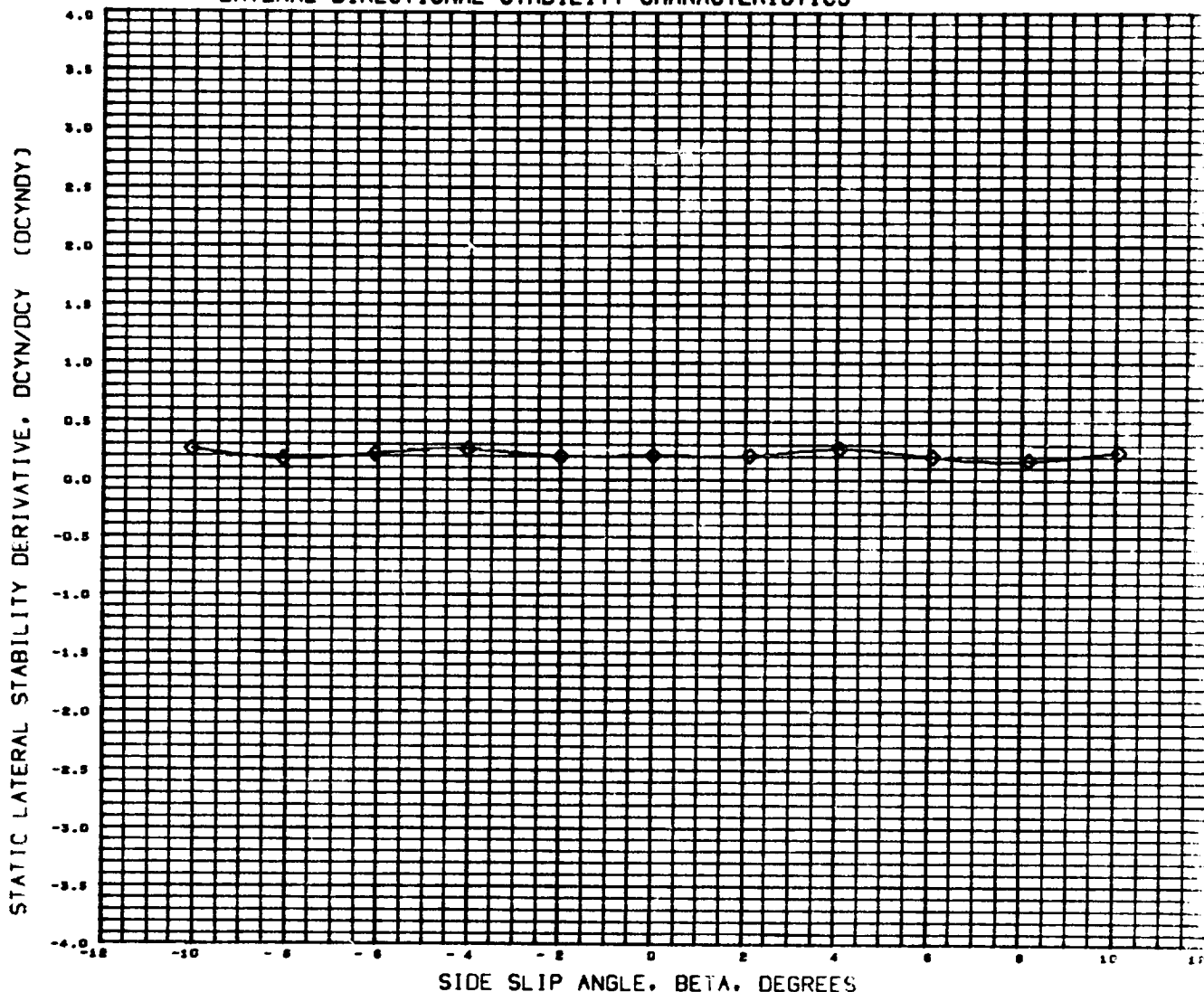
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3405F)	AR11981-1	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E3405G)		M492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3405H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3405I)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	XMRP 2.4000 IN.
(E3405J)	AR11981-1	M492-MSFC AR11981-1 MODEL 82W6C12V2	0.000	0.000	0.000	0.000	YMRP 0.0000 IN.
(E3405K)		M492-MSFC AR11981-1 MODEL 82W6C12V2	10.000	0.000	0.000	0.000	ZMRP 0.0000 IN.
(E3405L)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SCALE 0.0025
(E3405M)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	20.000	0.000	0.000	

MACH 3.480

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



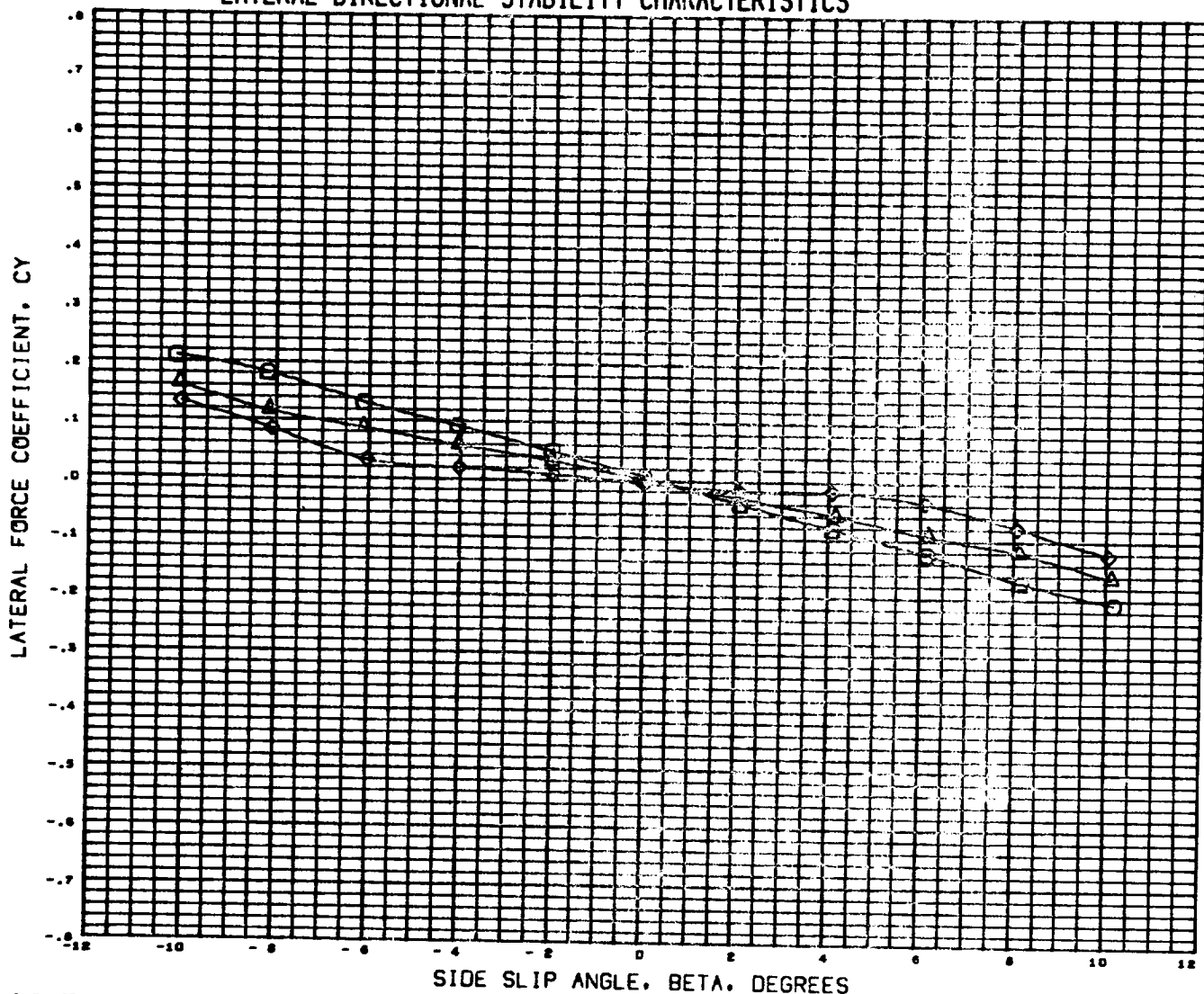
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3405F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3405G) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3405H) N482-NSFC AR11981-1 MODEL B2W6C12V2
 (E3407F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3407H) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON
0.000	0.000	0.000	0.000
10.000	0.000	0.000	0.000
15.500	0.000	0.000	0.000
0.000	20.000	0.000	0.000
16.000	20.000	0.000	0.000

REFERENCE INFORMATION		
SREF	4.62	36
LREF	4.300	18
BREF	4.300	18
XMRP	2.400	1
YMRP	0.000	1
ZMRP	0.000	18
SCALE	0.002	

MACN 4.929

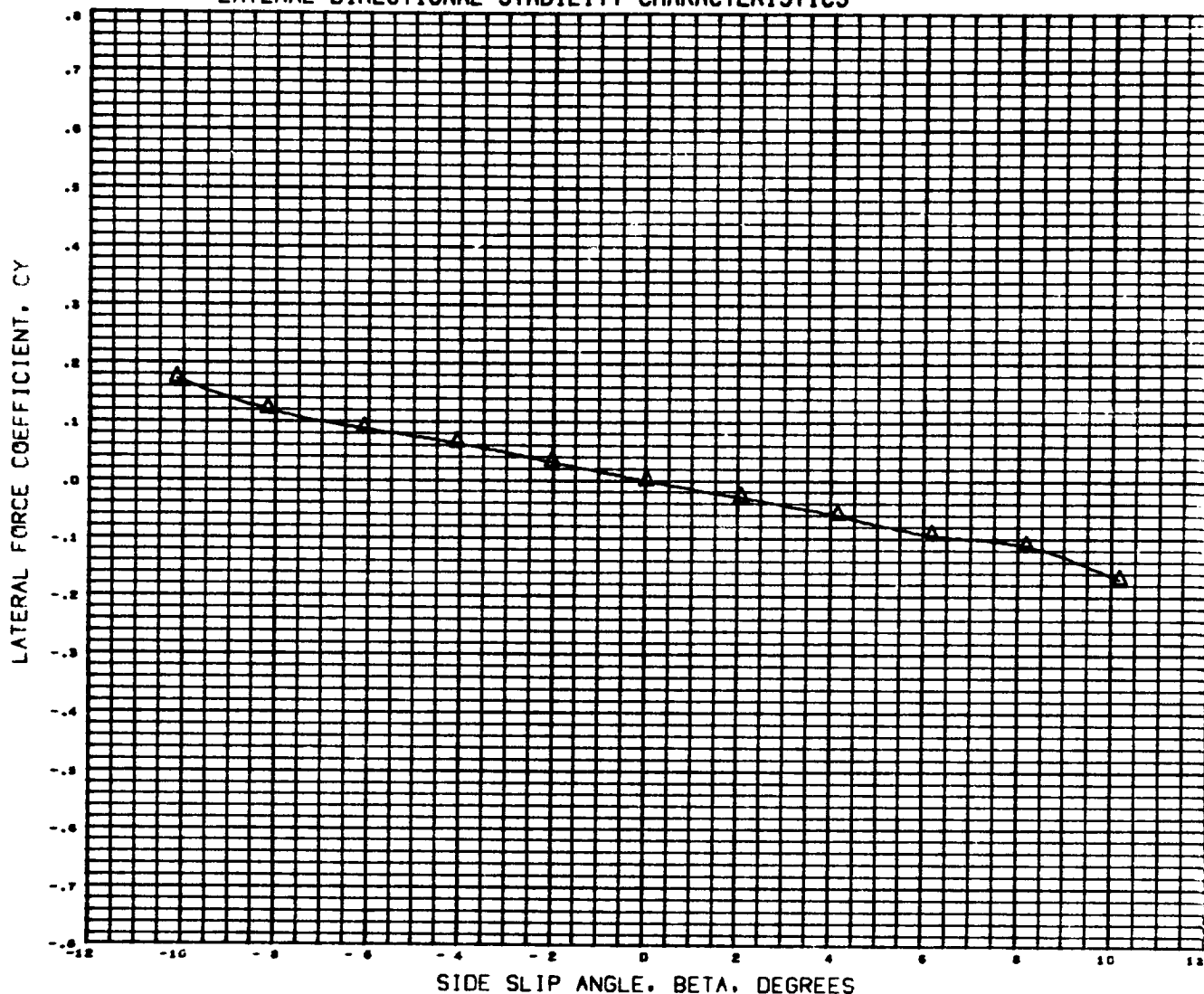
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR1198I-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 50. IN.
(E3410G)	M492-NSFC AR1198I-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-NSFC AR1198I-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.601

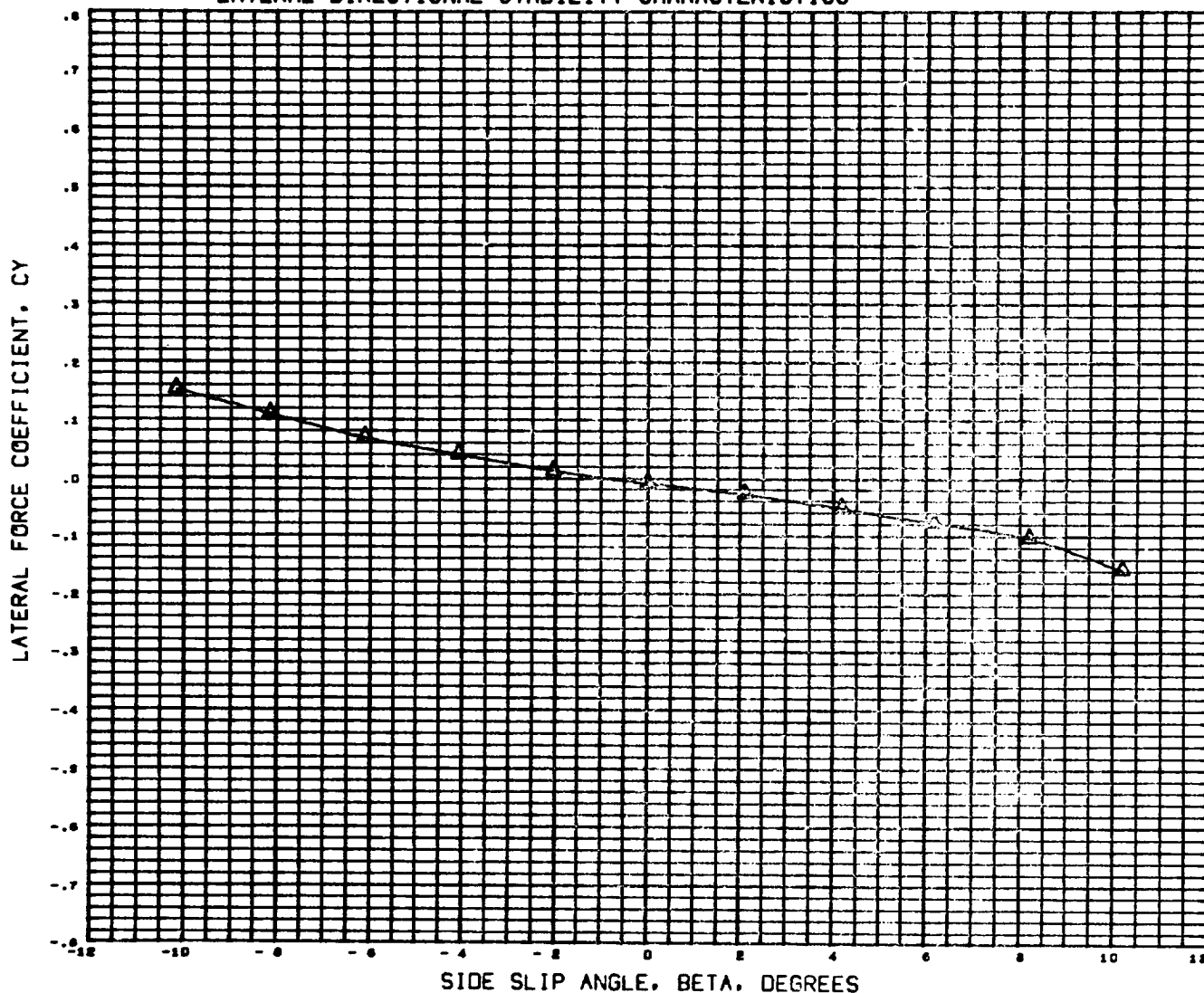
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 80.1h
(E3410G)	M492-MSFC AR11981-1 MODEL BZW6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.797

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

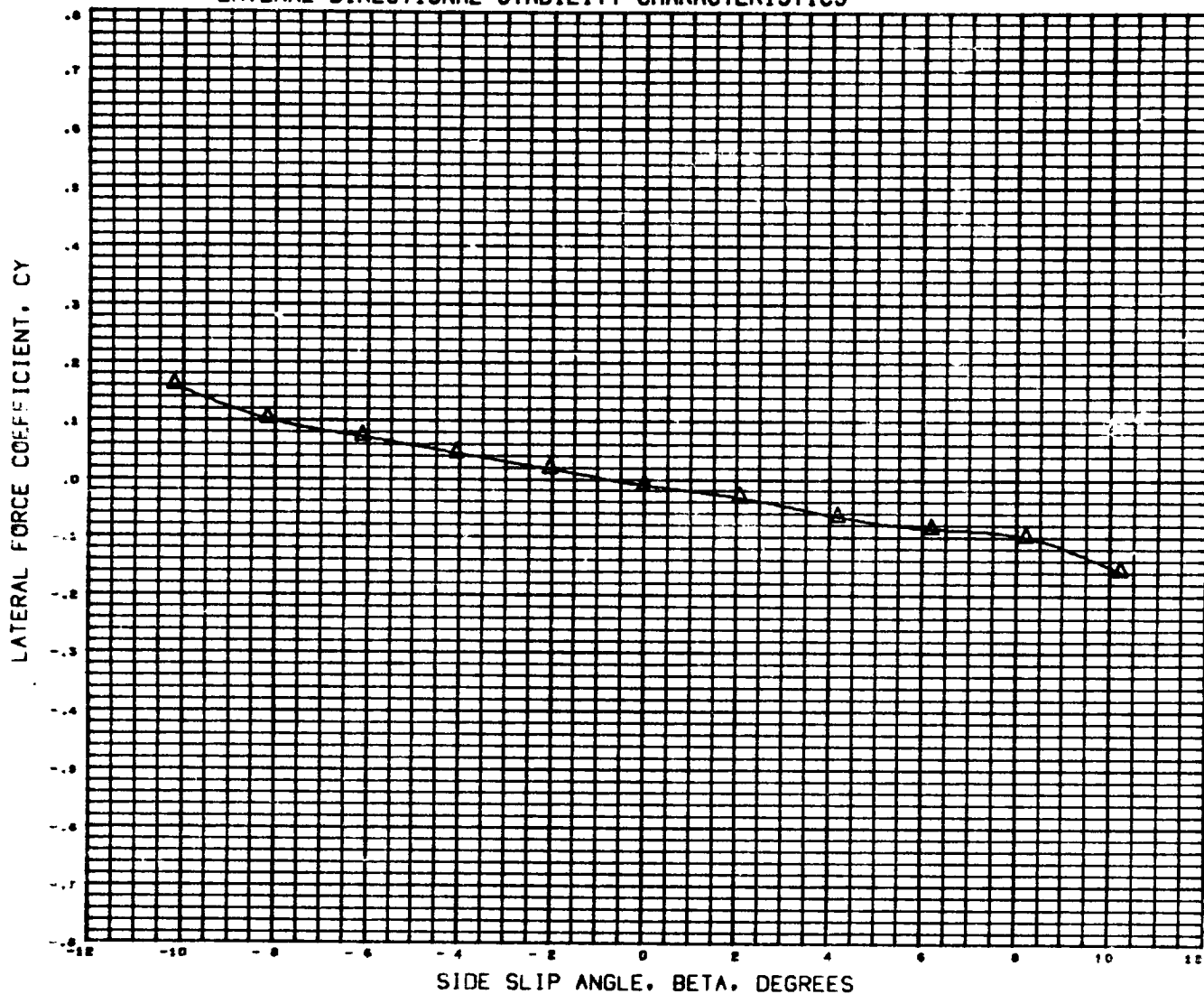


DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3410F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410G) M492-MBFC AR13881-1 MODEL 82W6C12V1
 (E3410H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410I) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
10.500	0.000	0.000	0.000	LREF 4.3000 IN.
15.500	0.000	0.000	0.000	BREF 4.3000 IN.
31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

MACH 0.899

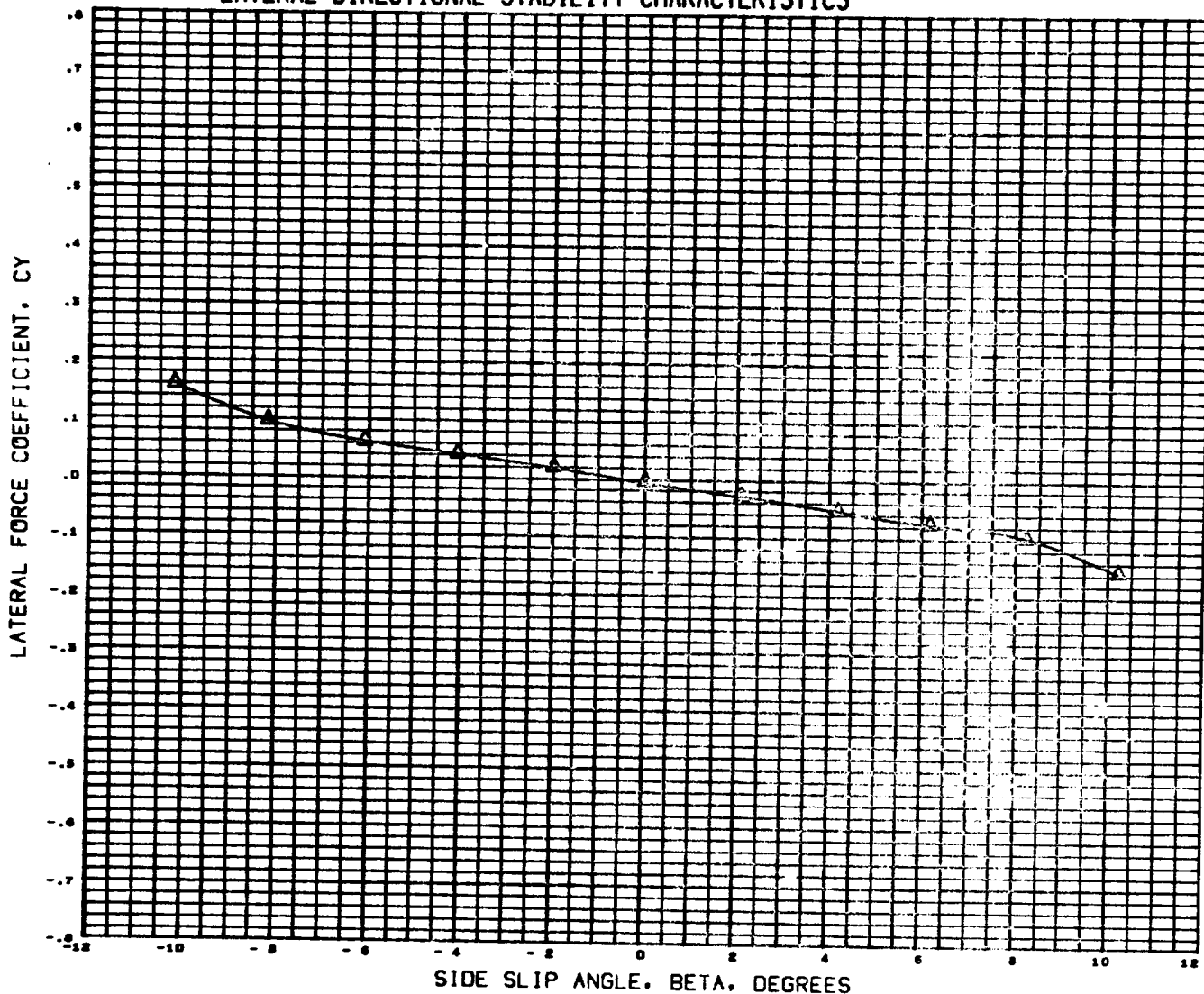
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E345DF)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 56 IN.
(E345DG)	M492-MSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E345DH)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E345DI)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E345DJ)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.948

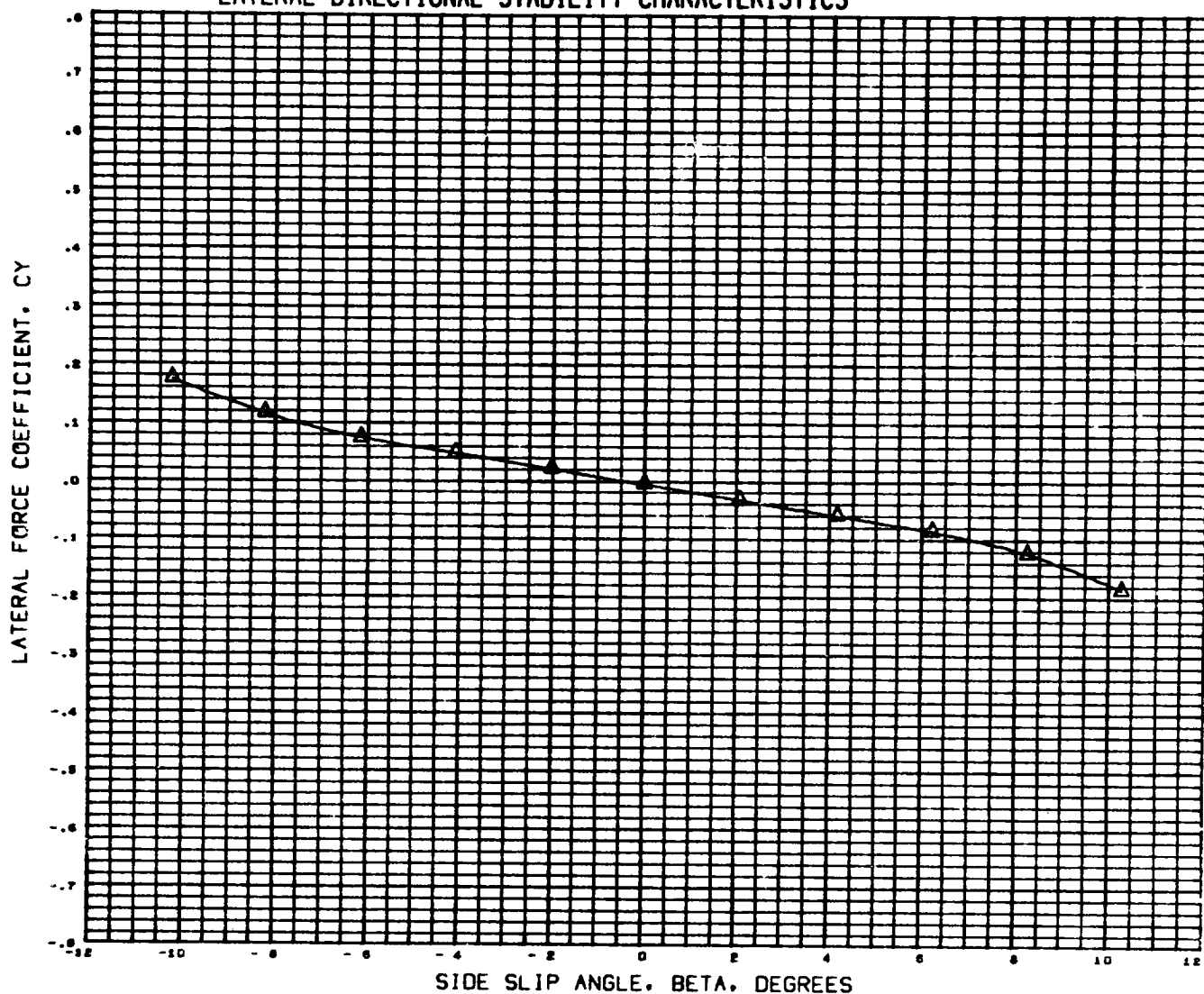
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 38. IN.
(E3410G)	N492-NSFC AR11981-1 MODEL B2WSC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.998

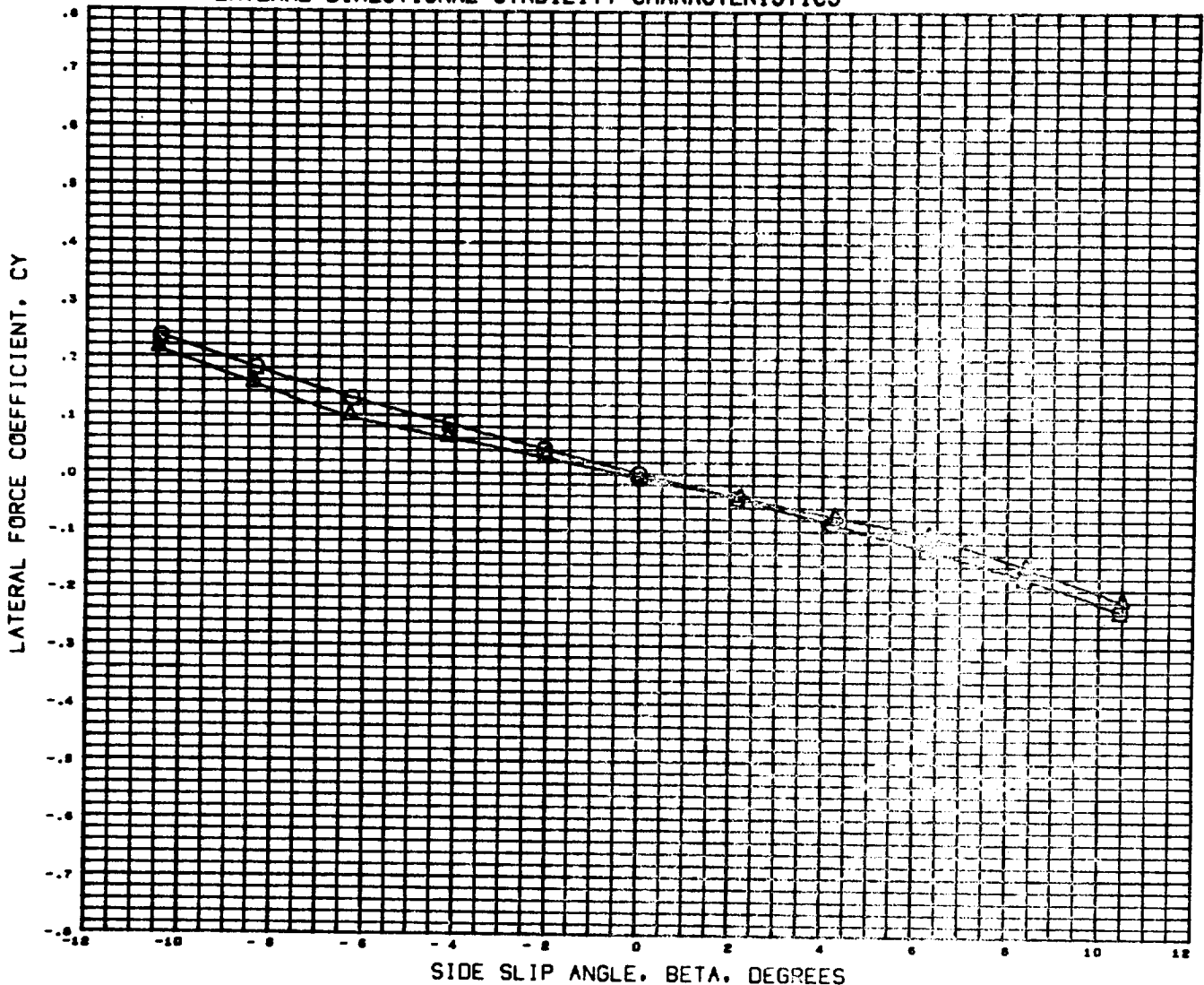
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 Sq. IN
(E3410G)	M492-MBFC AR11961-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.900	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.196

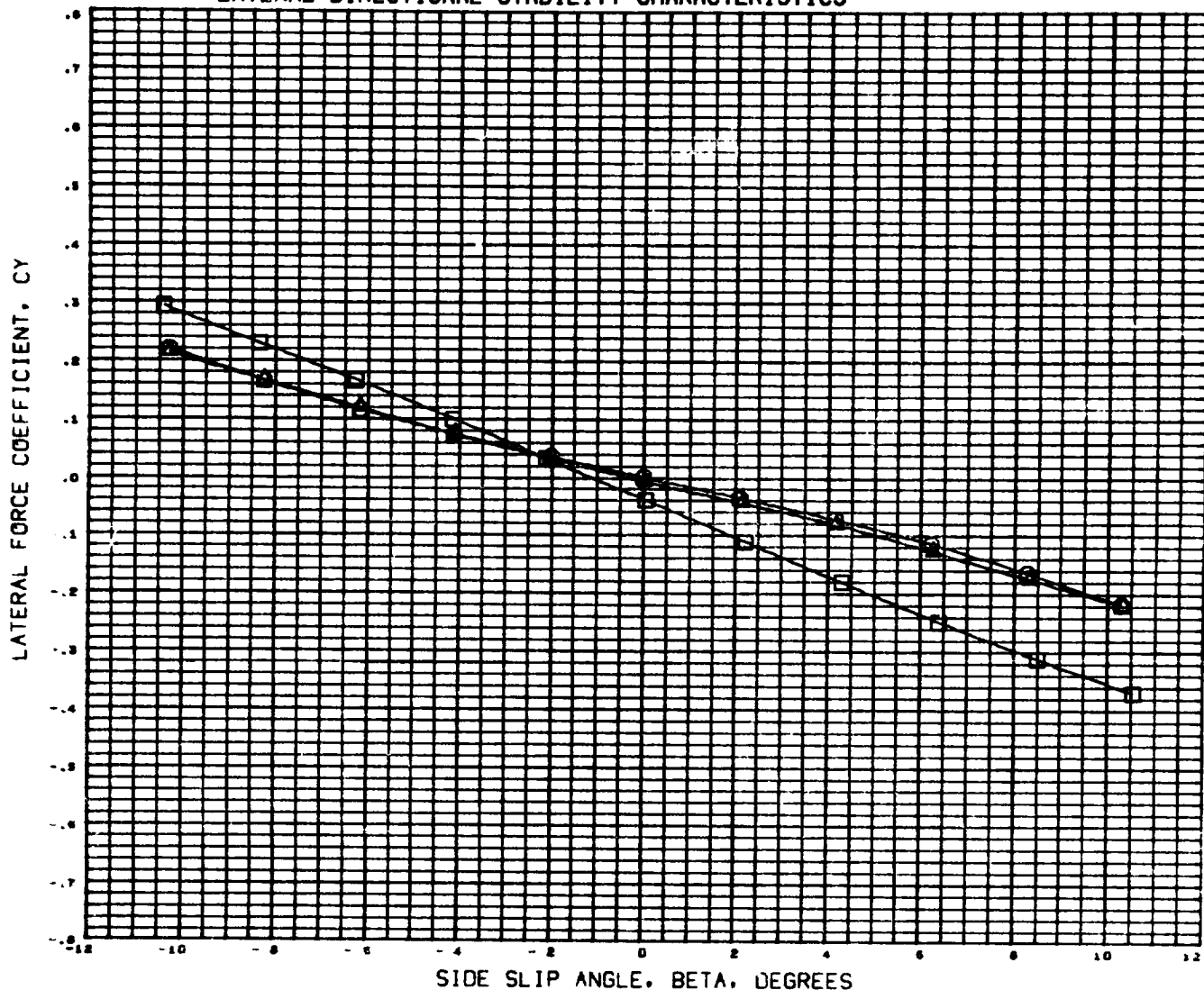
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR11061-1 MODEL 82W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	M492-NSFC AR11061-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRF 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRF 0.0000 IN.
						ZMRF 0.0000 IN.
						SCALE 0.0025

MACH 1.050

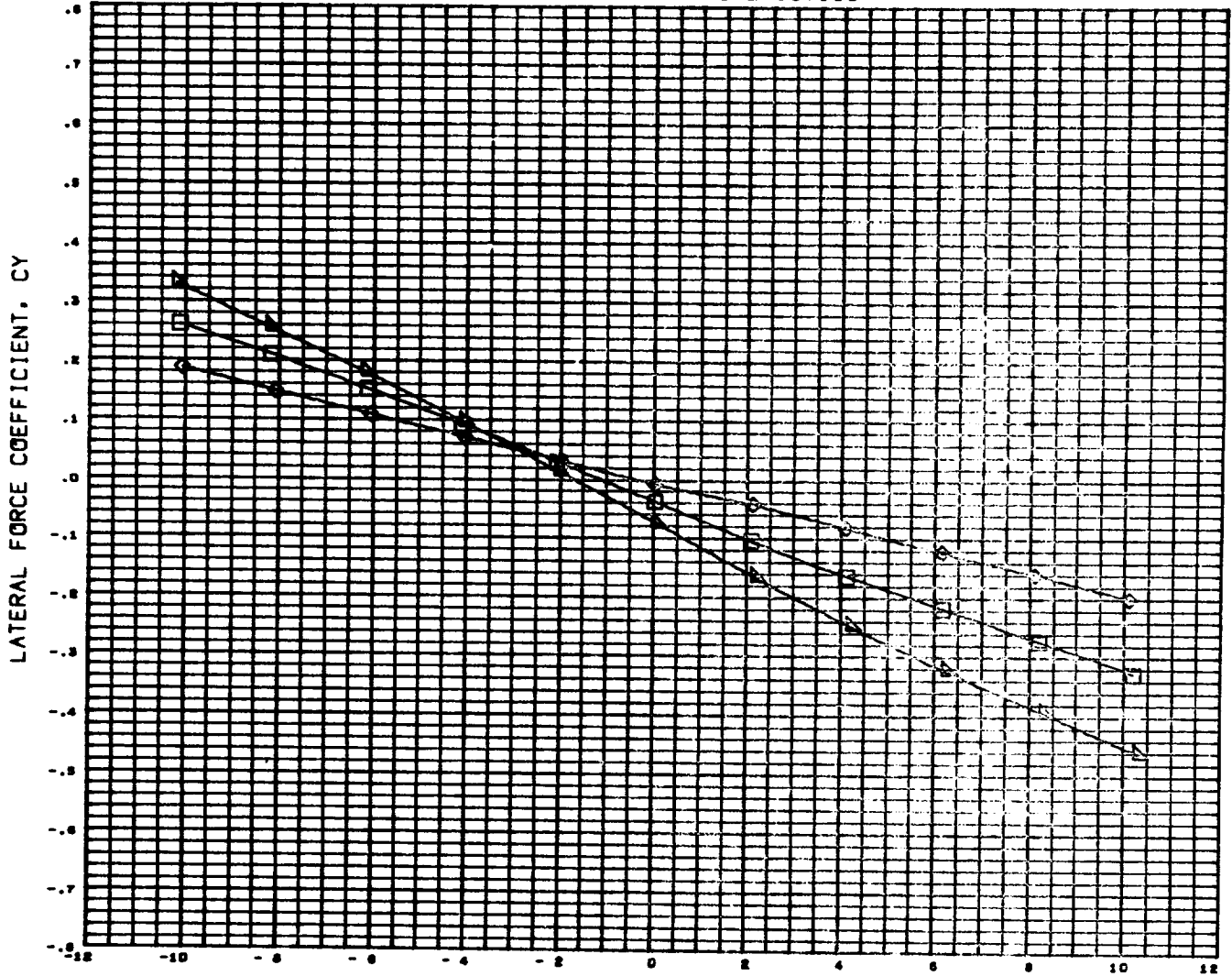
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-HSFC AR11981-1 MODEL BZWSC12V1	0.000	0.000	0.000	0.000	SREF 4.6225 50 IN.
(E3410G)	M492-HSFC AR11981-1 MODEL BZWSC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 14
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 14
(E3410I)	M492-HSFC AR11981-1 MODEL BZWSC12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 14
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 14
						ZMRP 0.0000 14
						SCALE 0.0025

MACH 5.490

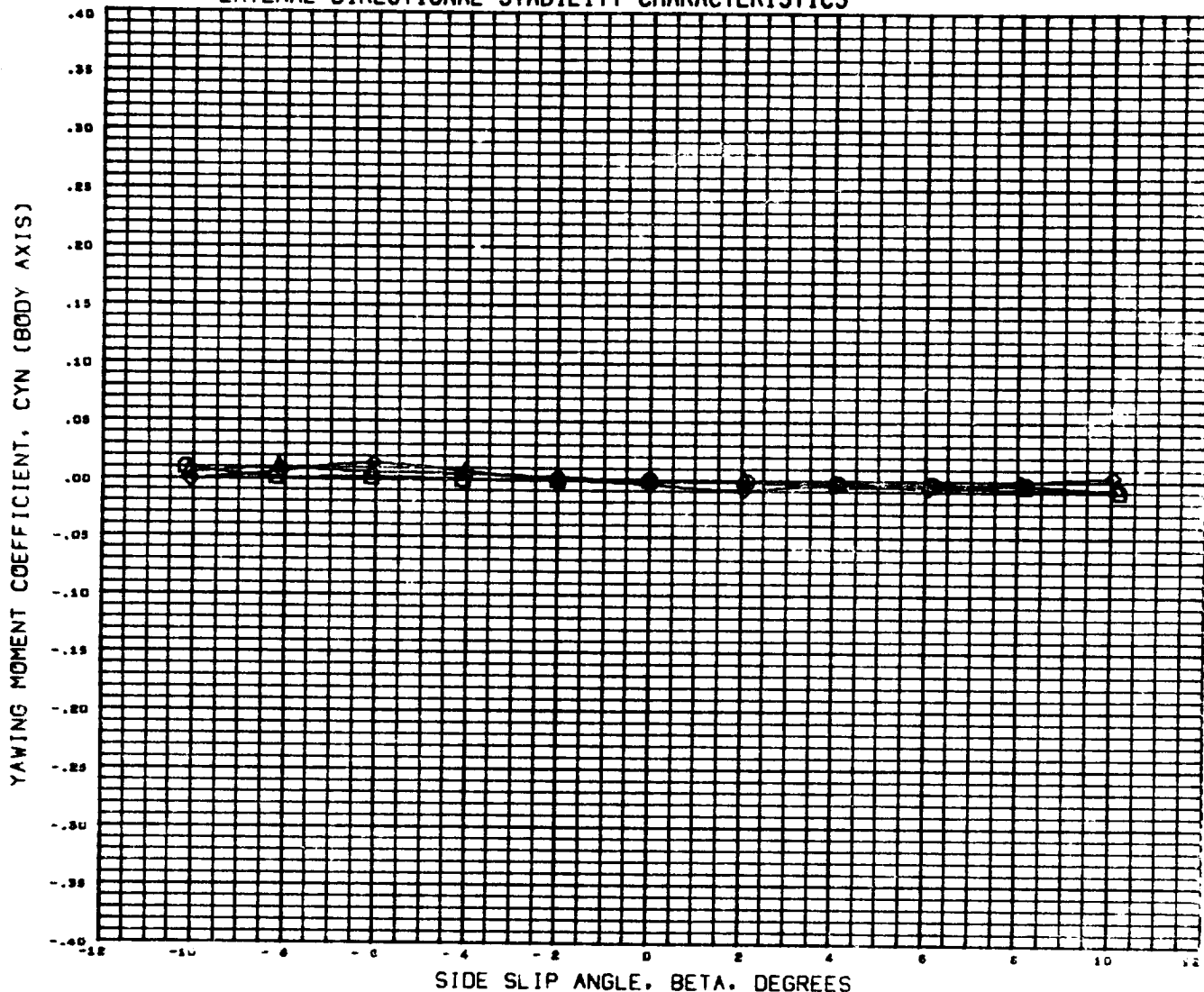
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 56.IN.
(E3410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-M8FC AR11001-1 MODEL 02W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	M492-M8FC AR11001-1 MODEL 02W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	M492-M8FC AR11001-1 MODEL 02W6C12V1	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.059

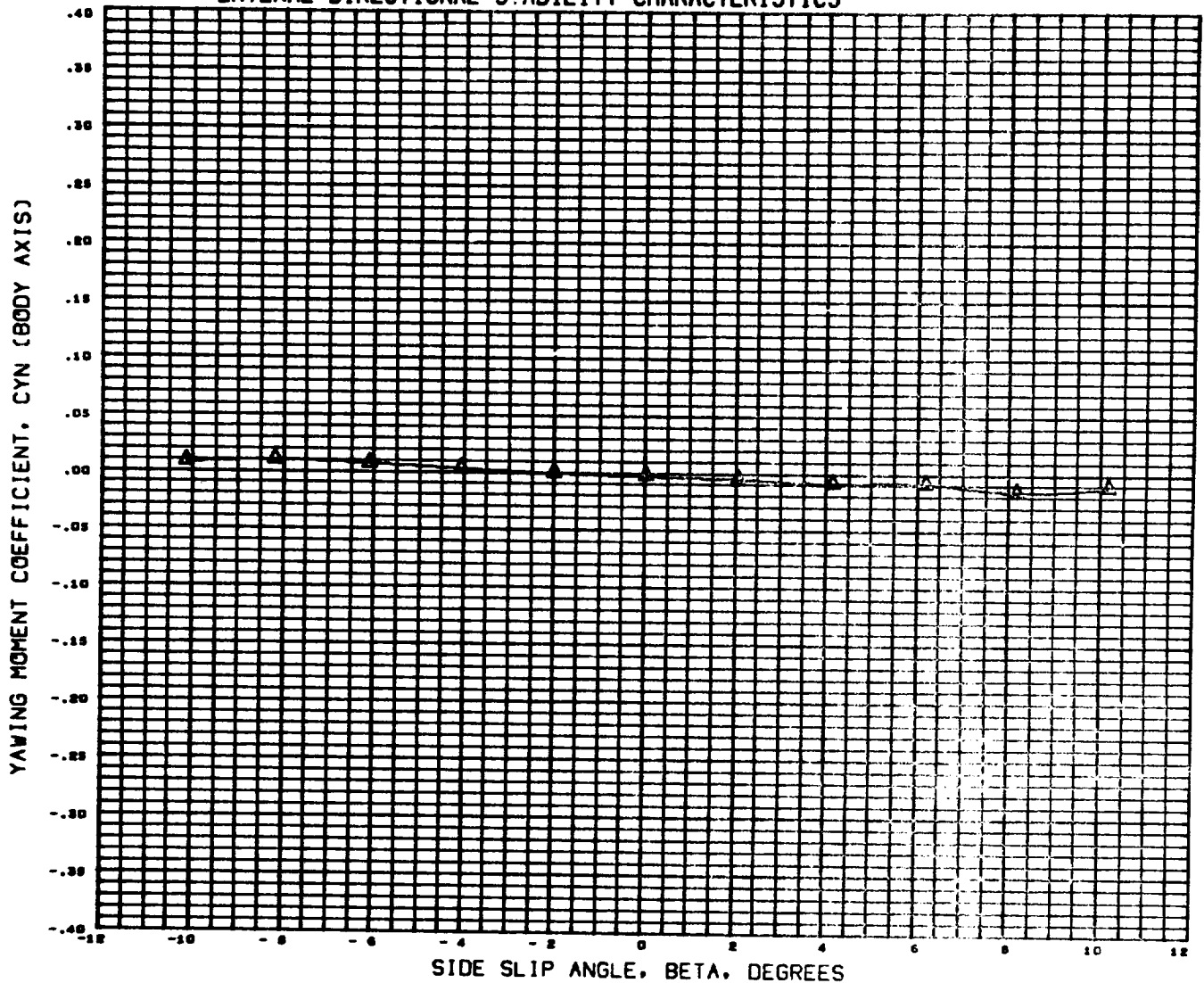
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MBFC AR119AI-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 50.15
(E3410G)	M492-MBFC AR119AI-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 10.15
(E3410H)	M492-MBFC AR119AI-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 10.15
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRF 2.4000 10.15
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRF 0.0000 10.15
						ZMRF 0.0000 10.15
						SCALE 0.0025

MACH 0.601

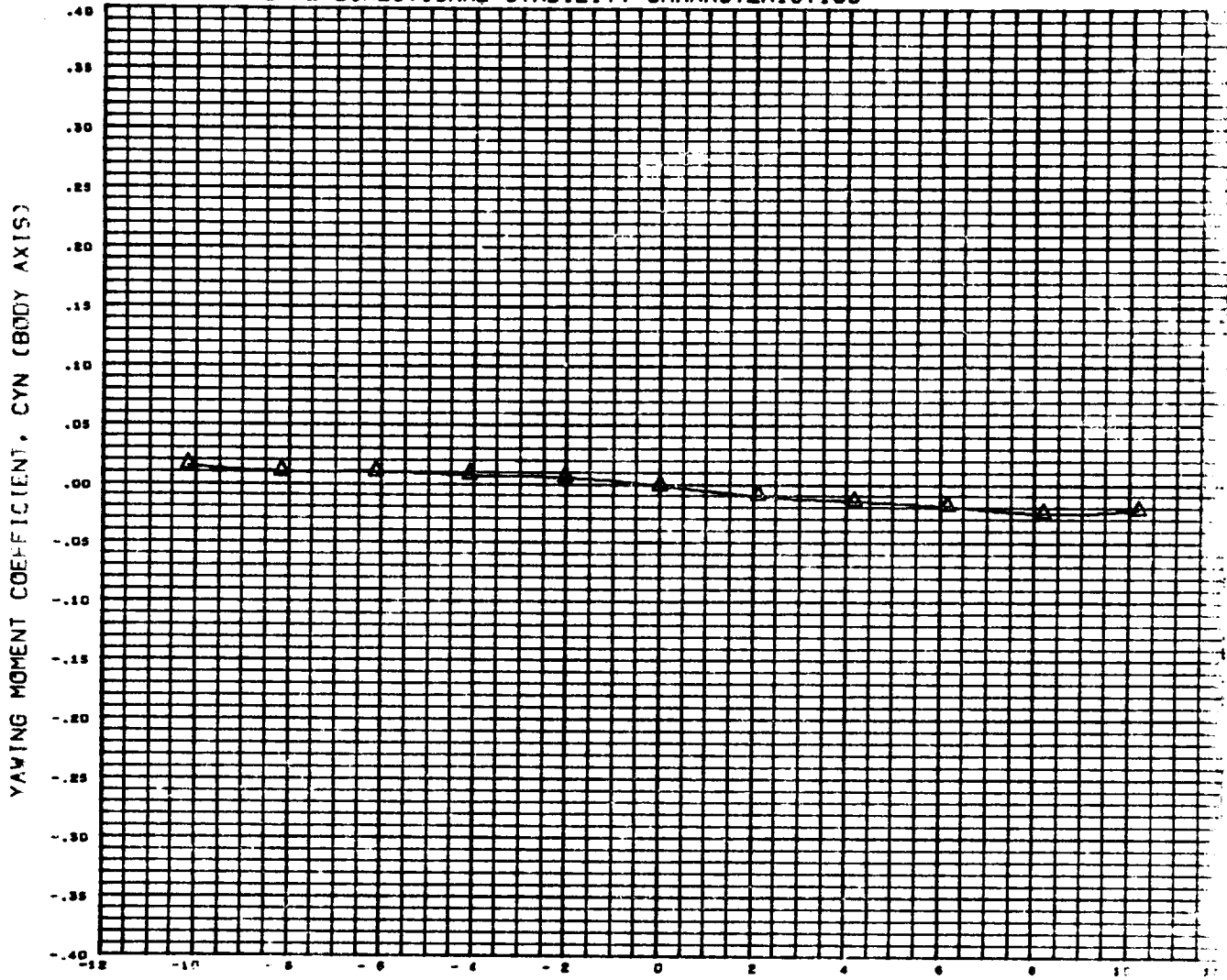
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 30. IN.
(E3410G)	N492-MSFC AR1901-1 MODEL BZW6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.797

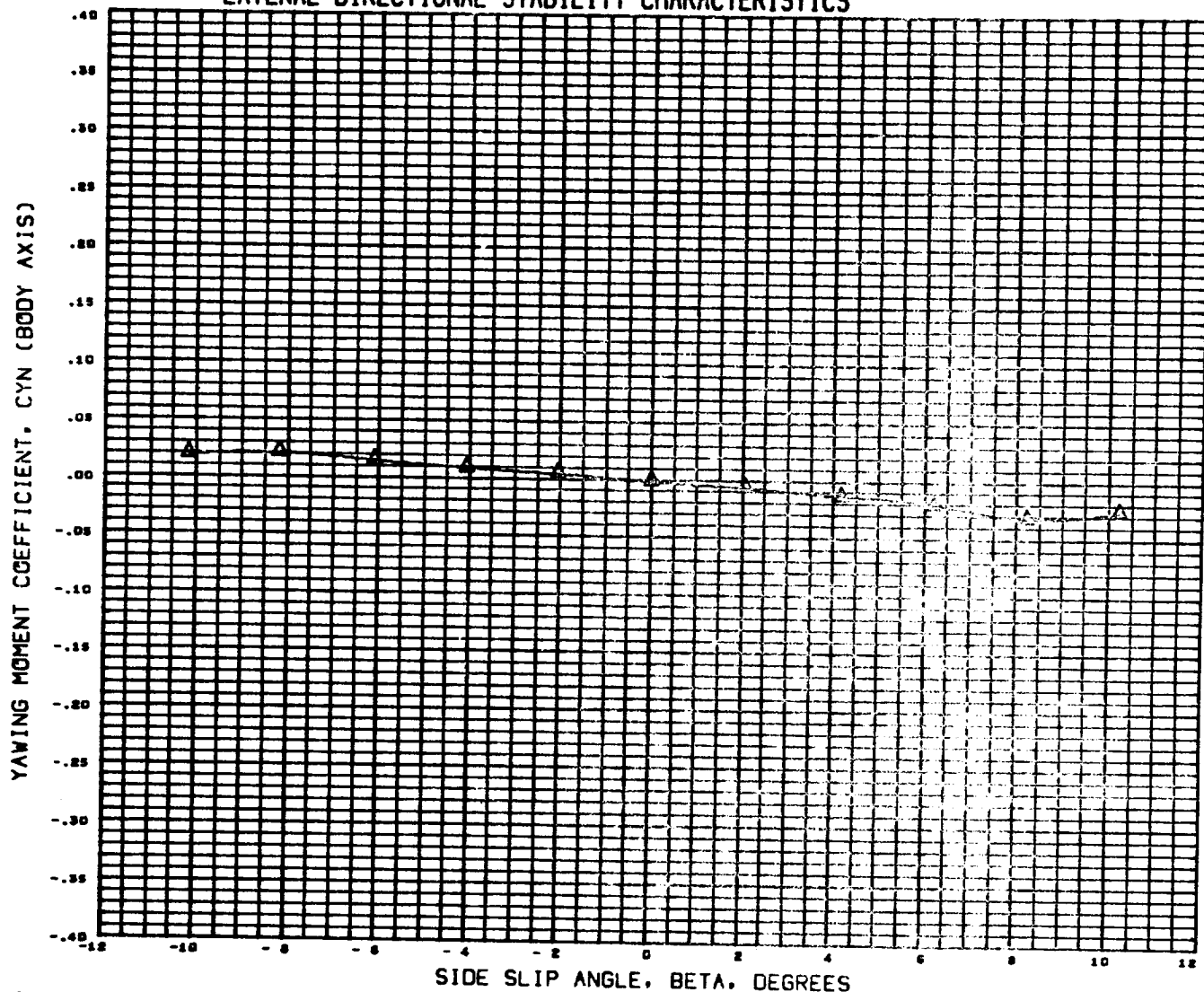
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIBED	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E94107)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.621 94
(E94106)	M492-HSFC AR17981-1 MODEL BWSC12V1	10.500	0.000	0.000	0.000	LREF 4.301 74
(E94108)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.301 74
(E94105)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.401 74
(E94104)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.001 74
						ZMRP 0.001 74
						SCALE 0.000

SCALE 0.000

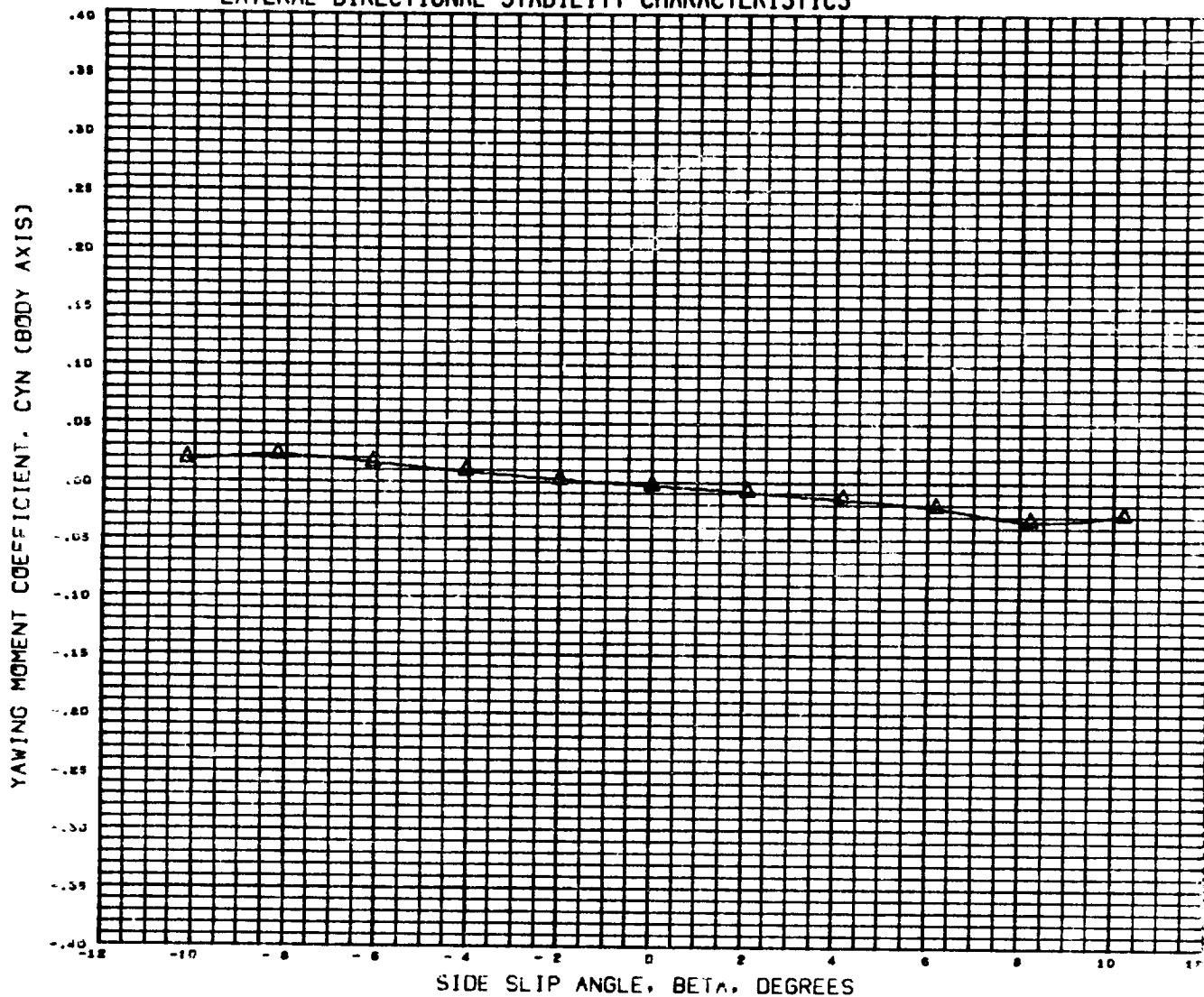
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410P)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50 IN.
(E3410G)	M492-NBFC AR1001-1 MODEL BEM6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.949

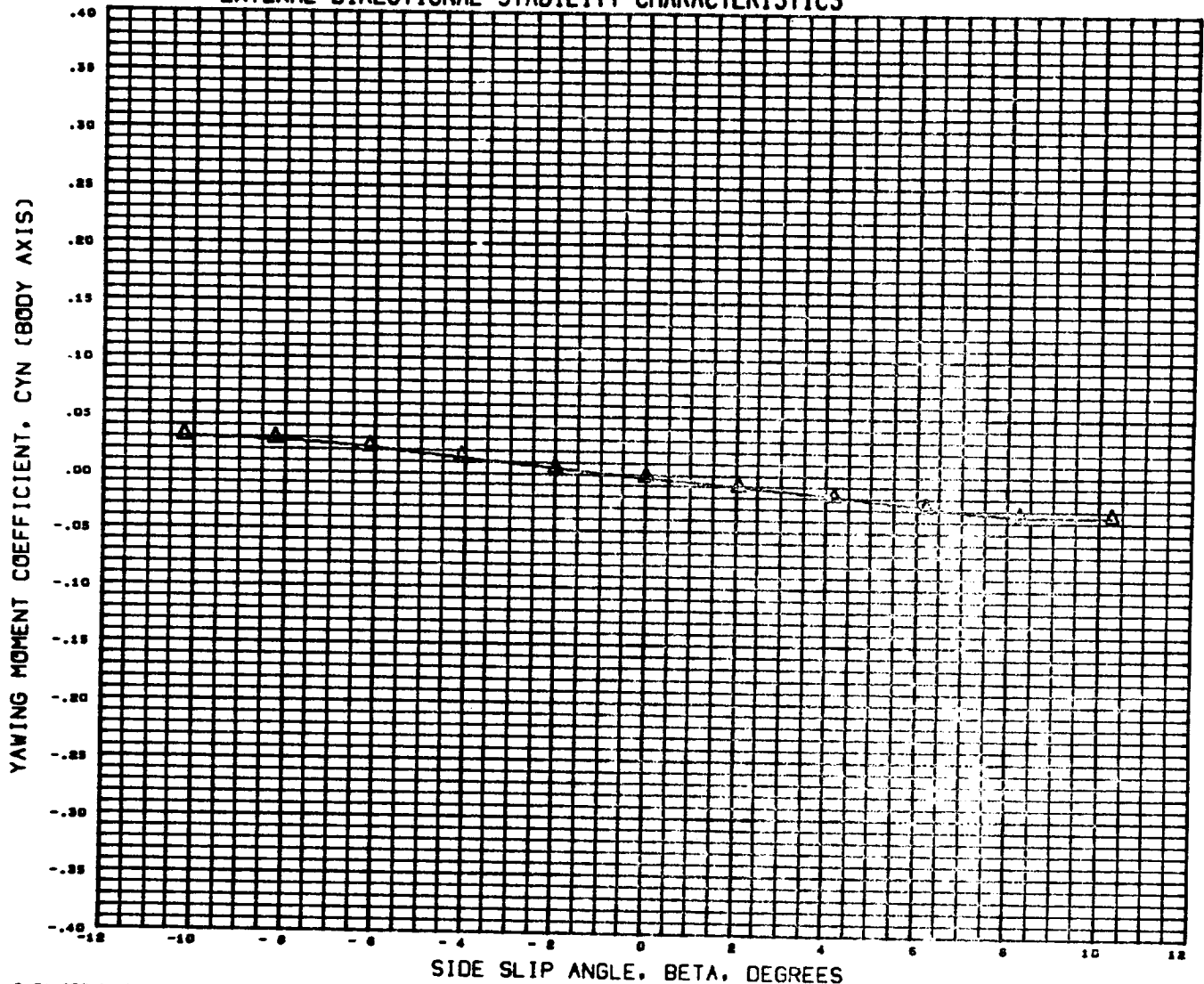
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SOURCE	CONFIGURATION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E34101)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SRF 4.6225 30..
(E34102)	N492-NSFC AR1901-1 MODEL BW6C12V1	10.500	0.000	0.000	0.000	LRF 4.3000 1*
(E34103)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BRF 4.3000 1*
(E34104)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 1*
(E34105)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 1*
						ZMRP 0.0000 1*
						SCALE 0.0025

HACH 0.005

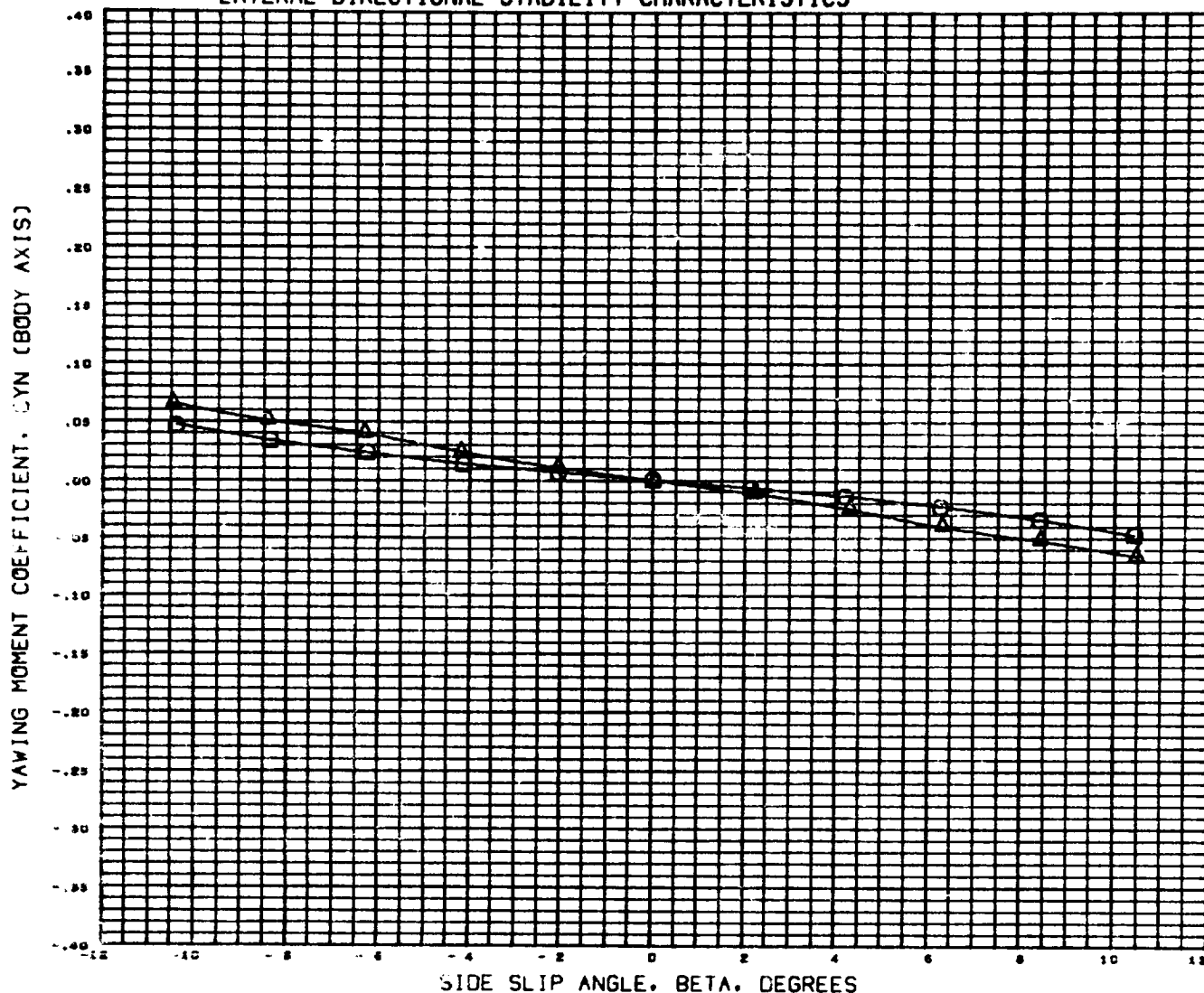
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 38. IN.
(E3418G)	M492-HSFC AR11981-1 MODEL 82WSC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3418H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3418I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3418J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

NACH 1.186

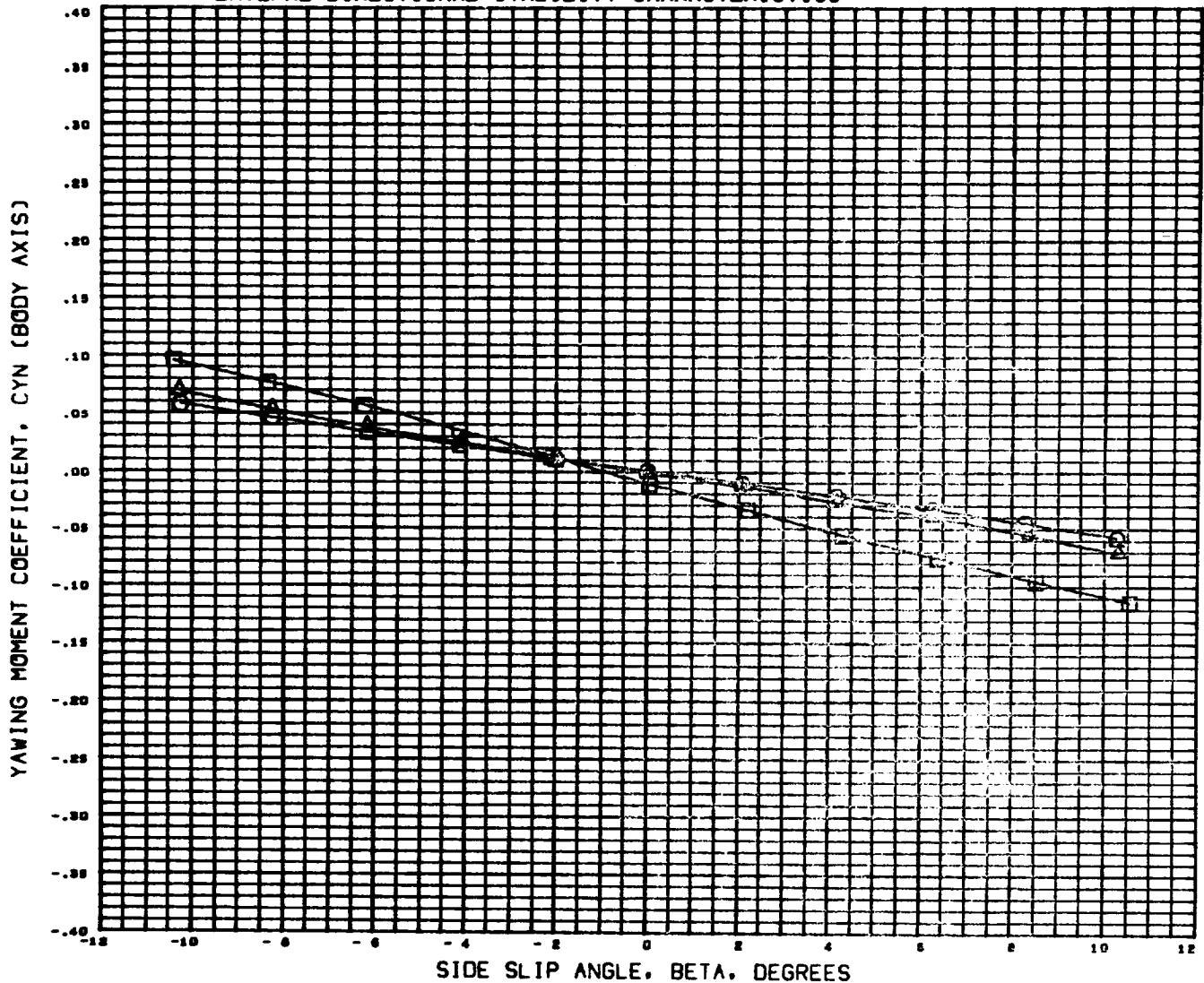
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	7492-MSFC AR11981-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 SQ.IN.
(E3410G)	7492-MSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 8.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

RACH 1.938

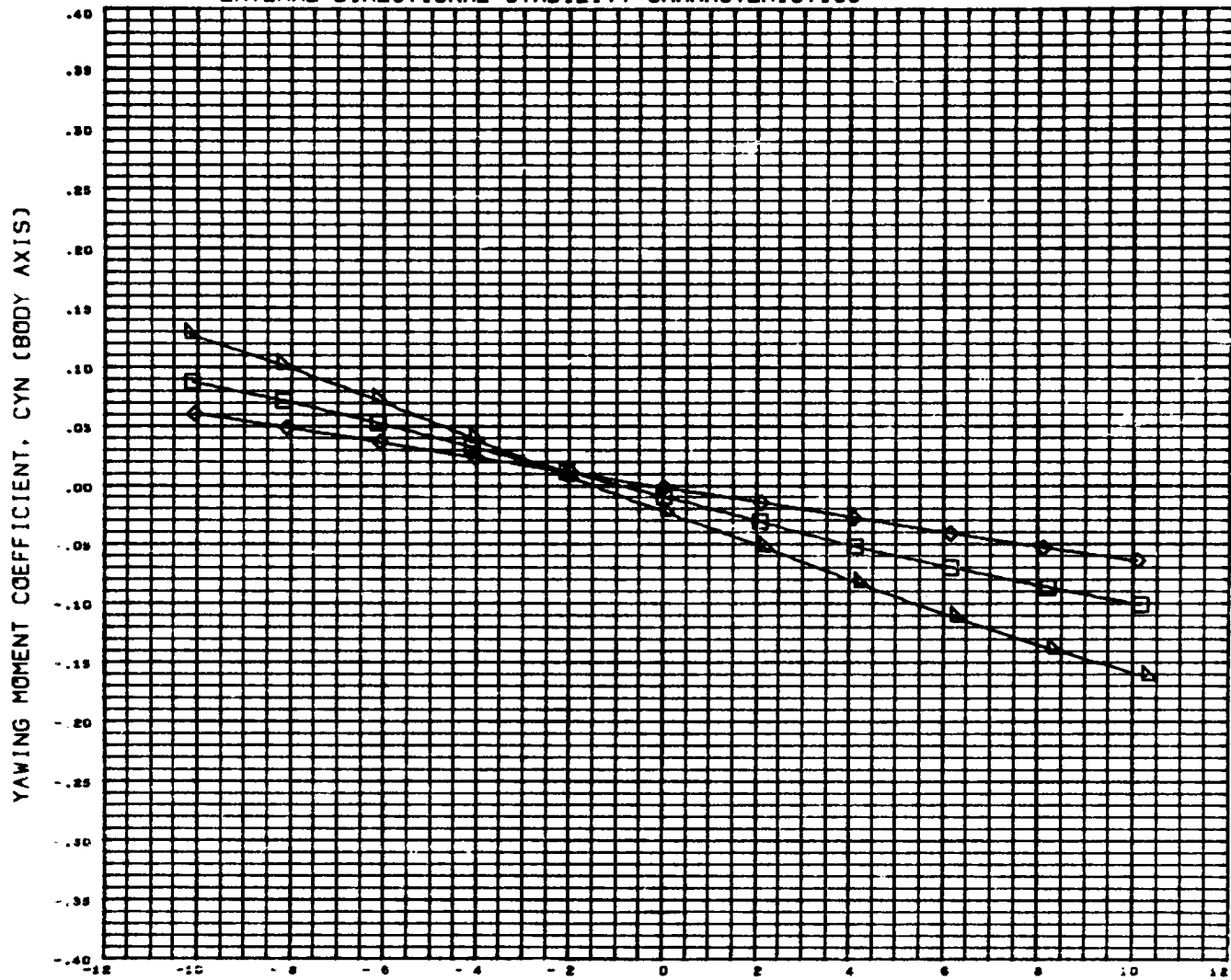
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	N492-HSFC AR11901-1 MODEL BW6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 30. IN.
(E3410G)	N492-HSFC AR11901-1 MODEL BW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	N492-HSFC AR11901-1 MODEL BW6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.400

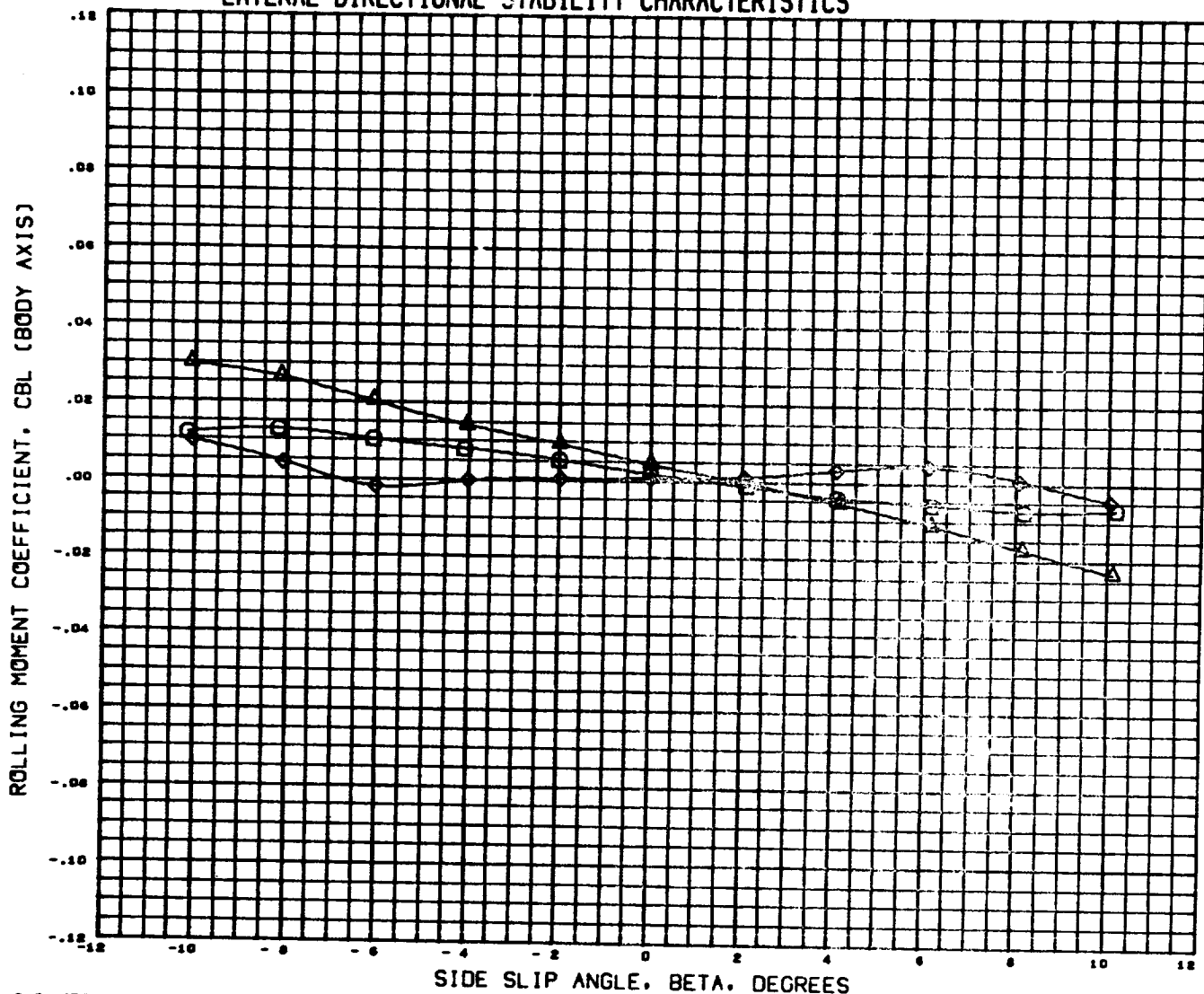
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50 IN.
(E3410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	M492-MSFC AR11981-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	SREF	4.3000 IN.
(E3410I)	M492-MSFC AR11981-1 MODEL B2W6C12V1	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	M492-MSFC AR11981-1 MODEL B2W6C12V1	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 4.959

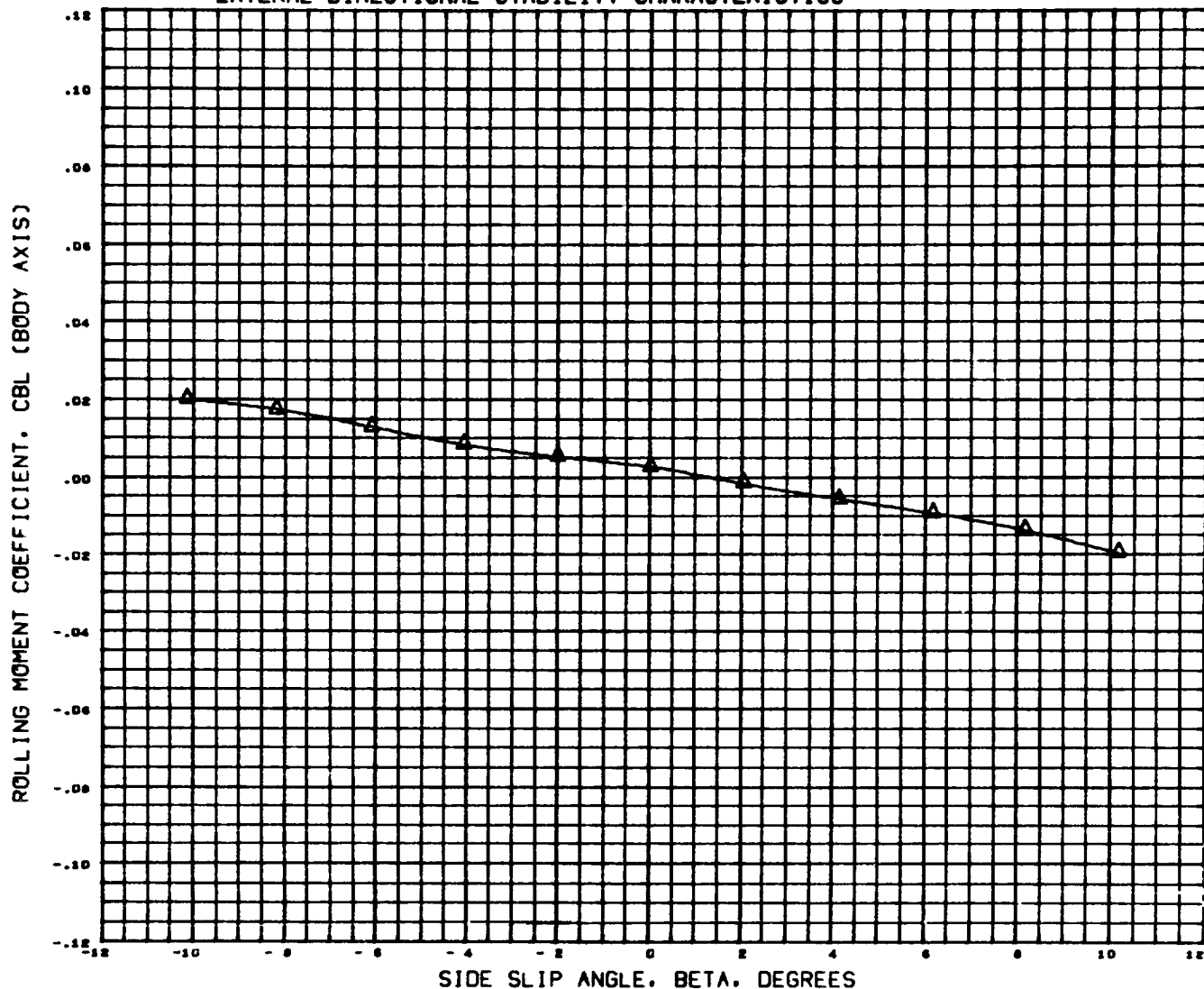
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	N492-MSFC AR11991-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3410G)	N492-MSFC AR11991-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	N492-MSFC AR11991-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	N492-MSFC AR11991-1 MODEL B2W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	N492-MSFC AR11991-1 MODEL B2W6C12V1	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
	DATA NOT AVAILABLE FOR ALL CONDITIONS					ZMRP 0.0000 IN.
	DATA NOT AVAILABLE FOR ALL CONDITIONS					SCALE 0.0025

NACN 0.001

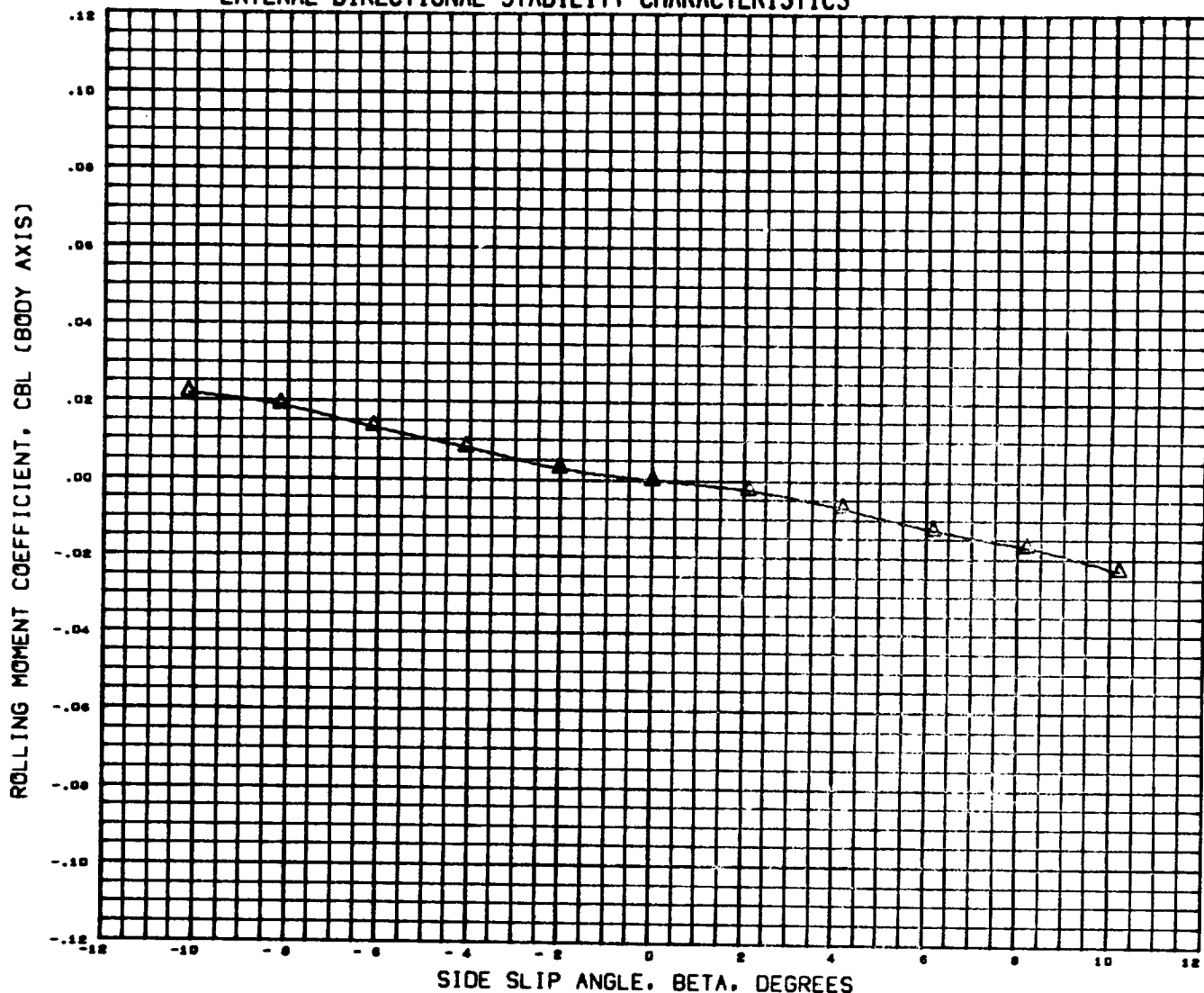
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	C000	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3410G)		N492-MSFC AR119R1-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)		DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XWRP	2.4000 IN.
(E3410J)		DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YWRP	0.0000 IN.
							ZWRP	0.0000 IN.
							SCALE	0.0025

MACH 0.797

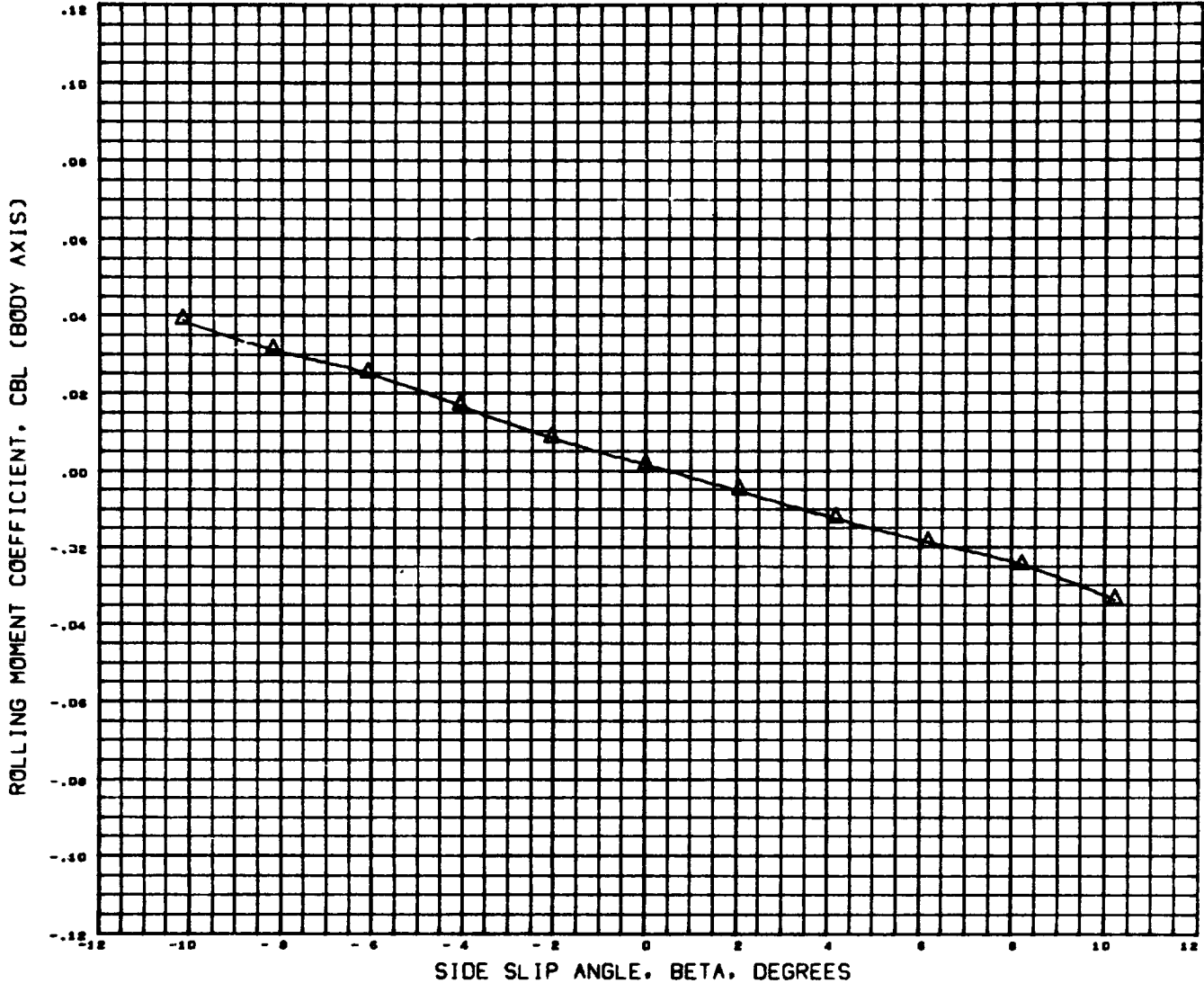
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	N492-NSFC AR11981-1 MODEL B2W0C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 0.899

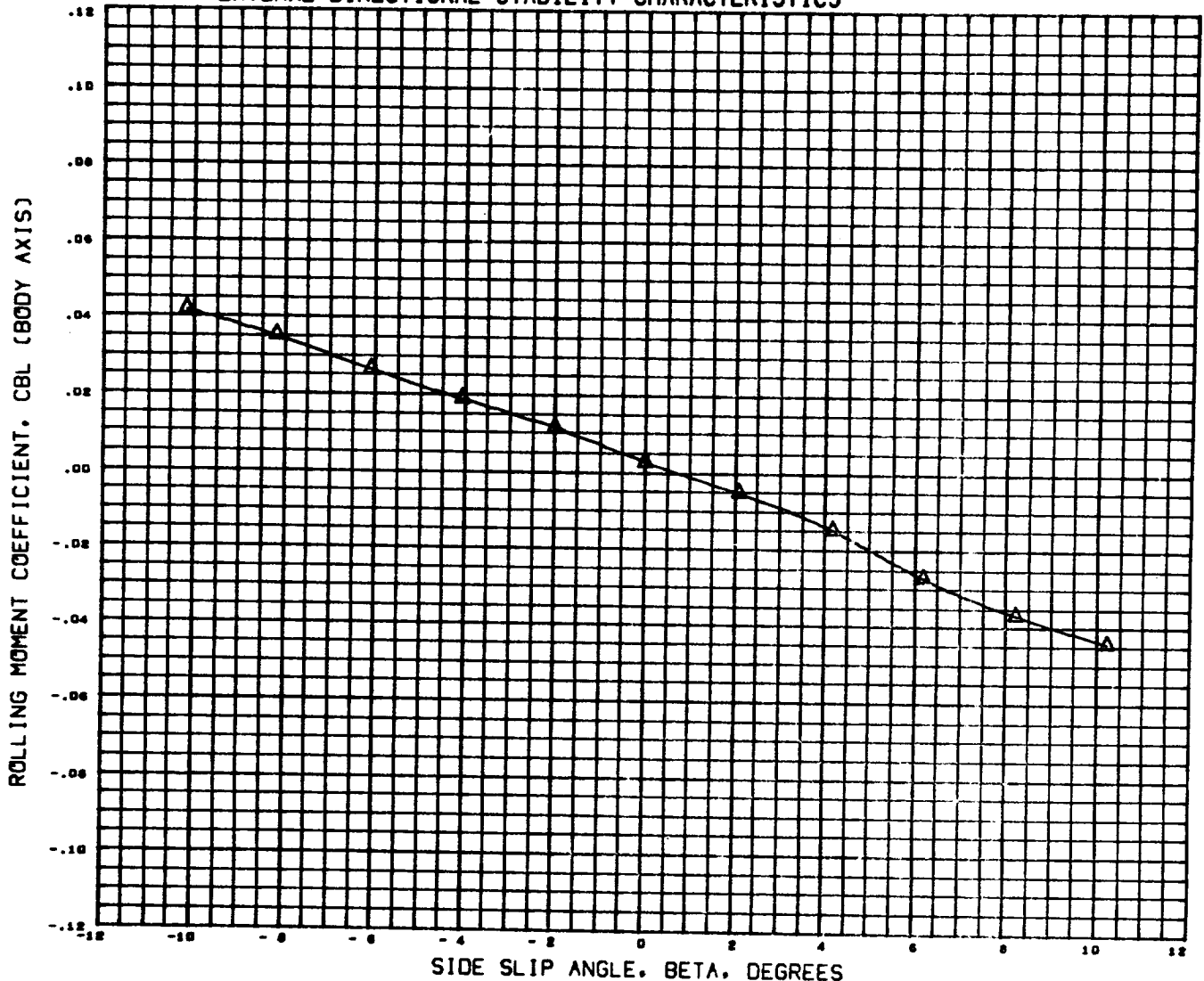
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF 4.6225 30.IN.
(E3410G)	M492-NSFC AR11901-1 MODEL 82W6C1EV1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.949

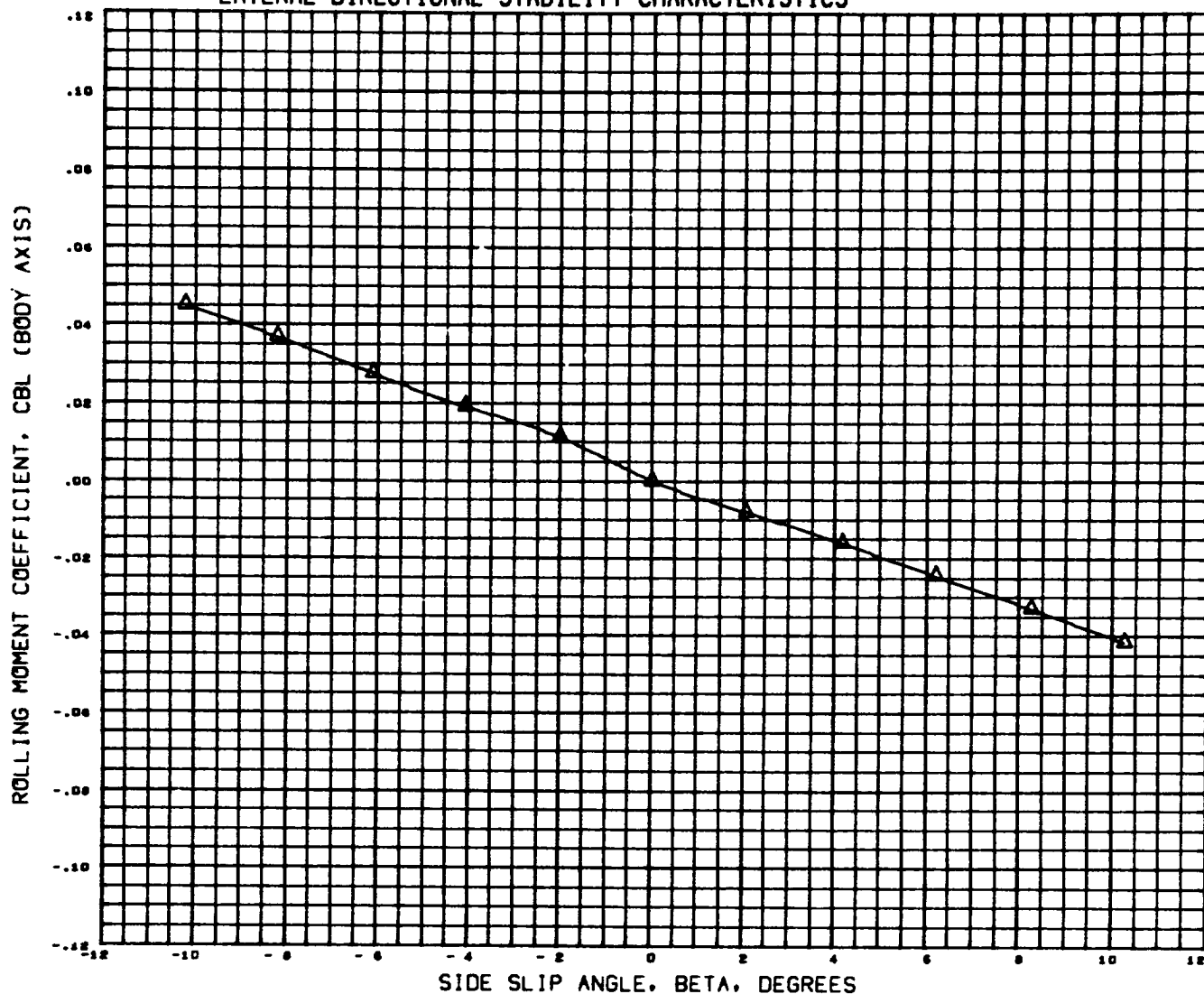
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3410G)	M492-HSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.998

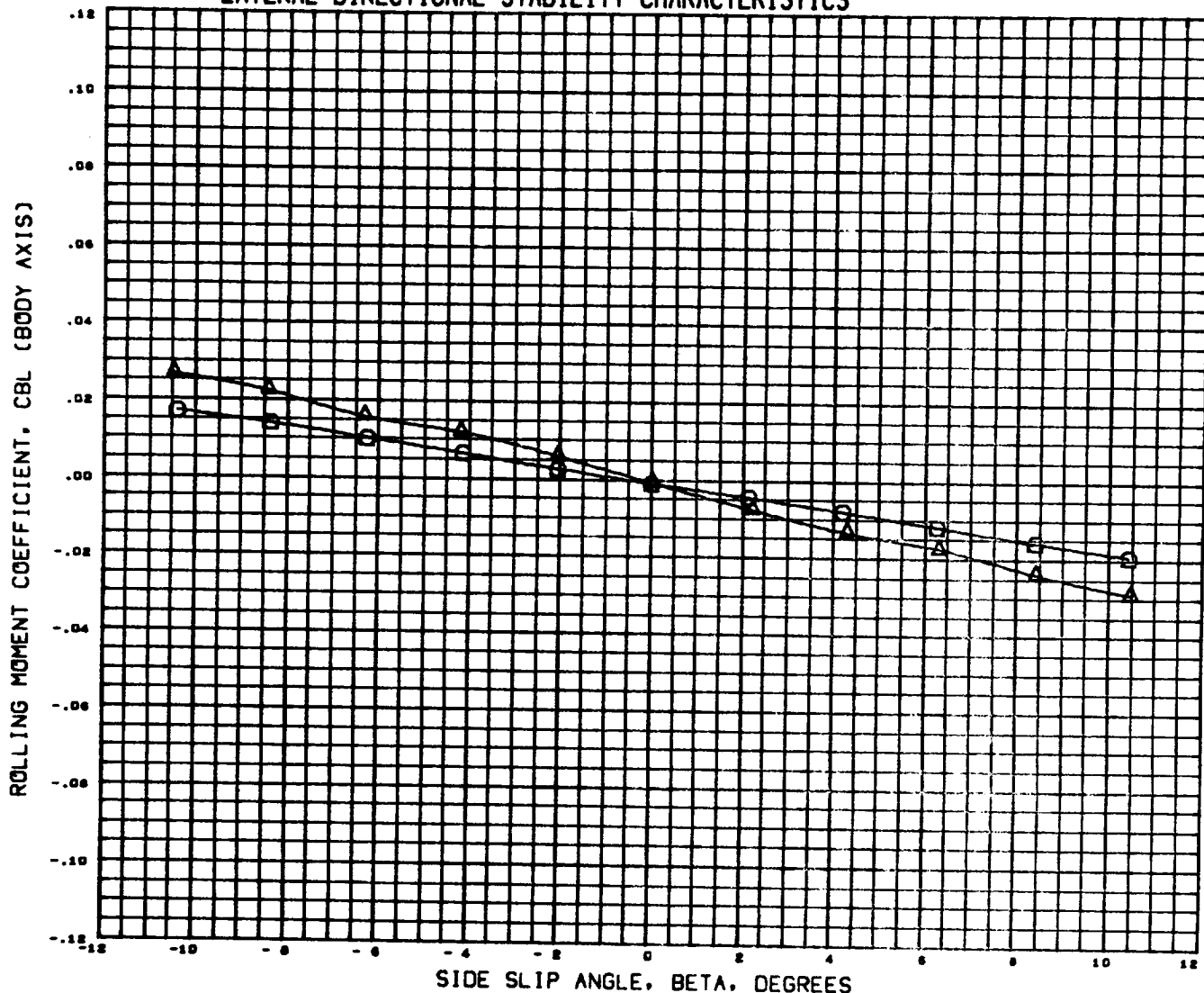
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 38.1N.
(E3410G)		DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LRFP 4.3000 IN.
(E3410H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SRFP 4.3000 IN.
(E3410I)		DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XRFP 2.4000 IN.
(E3410J)		DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
							ZMRP 0.0000 IN.
							SCALE 0.0025

MACH 1.196

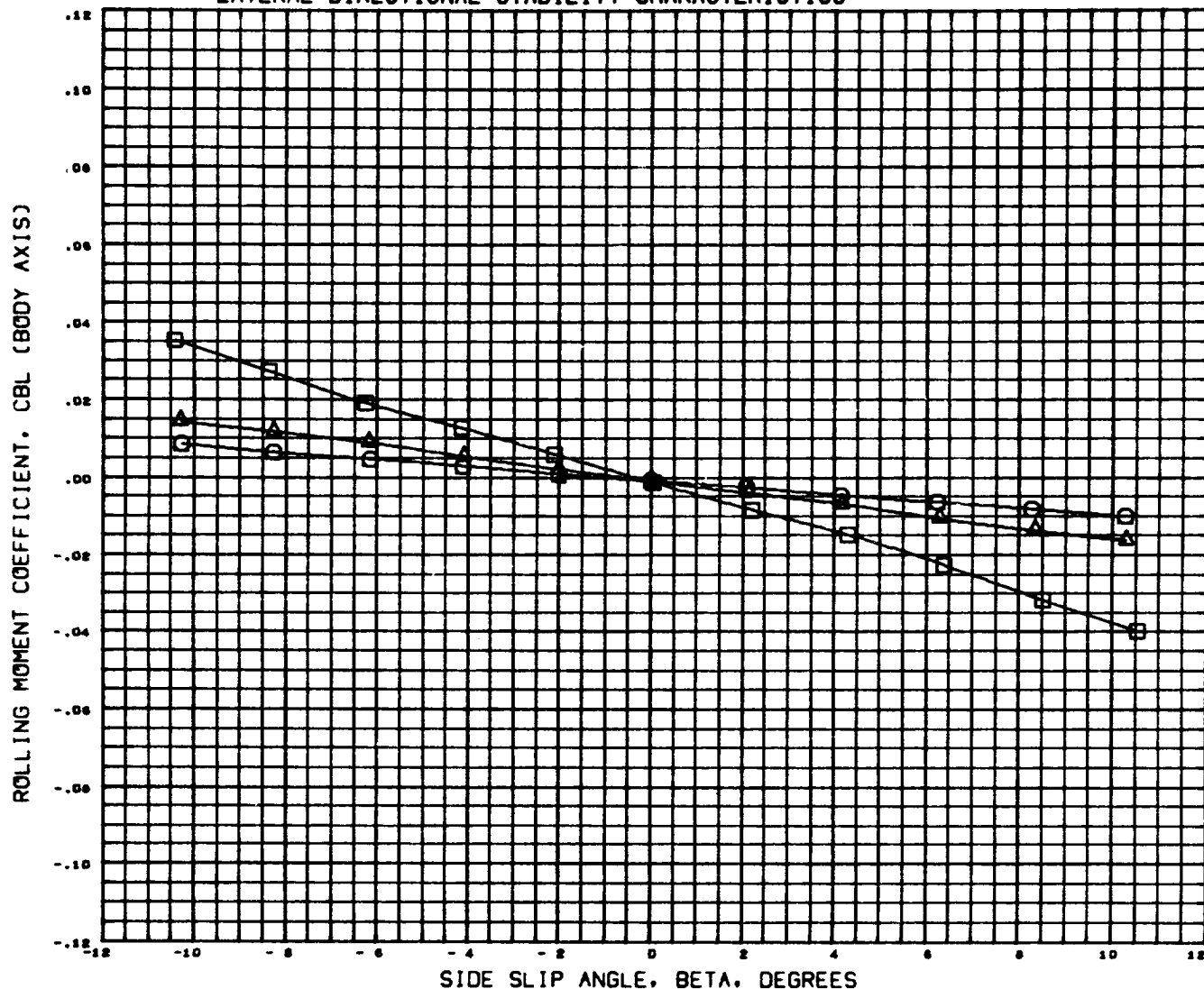
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR11981-1 MODEL BWMC12V1	0.000	0.000	0.000	0.000	SREF 4.6225 36. IN.
(E3410G)	M492-NSFC AR11981-1 MODEL BWMC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.958

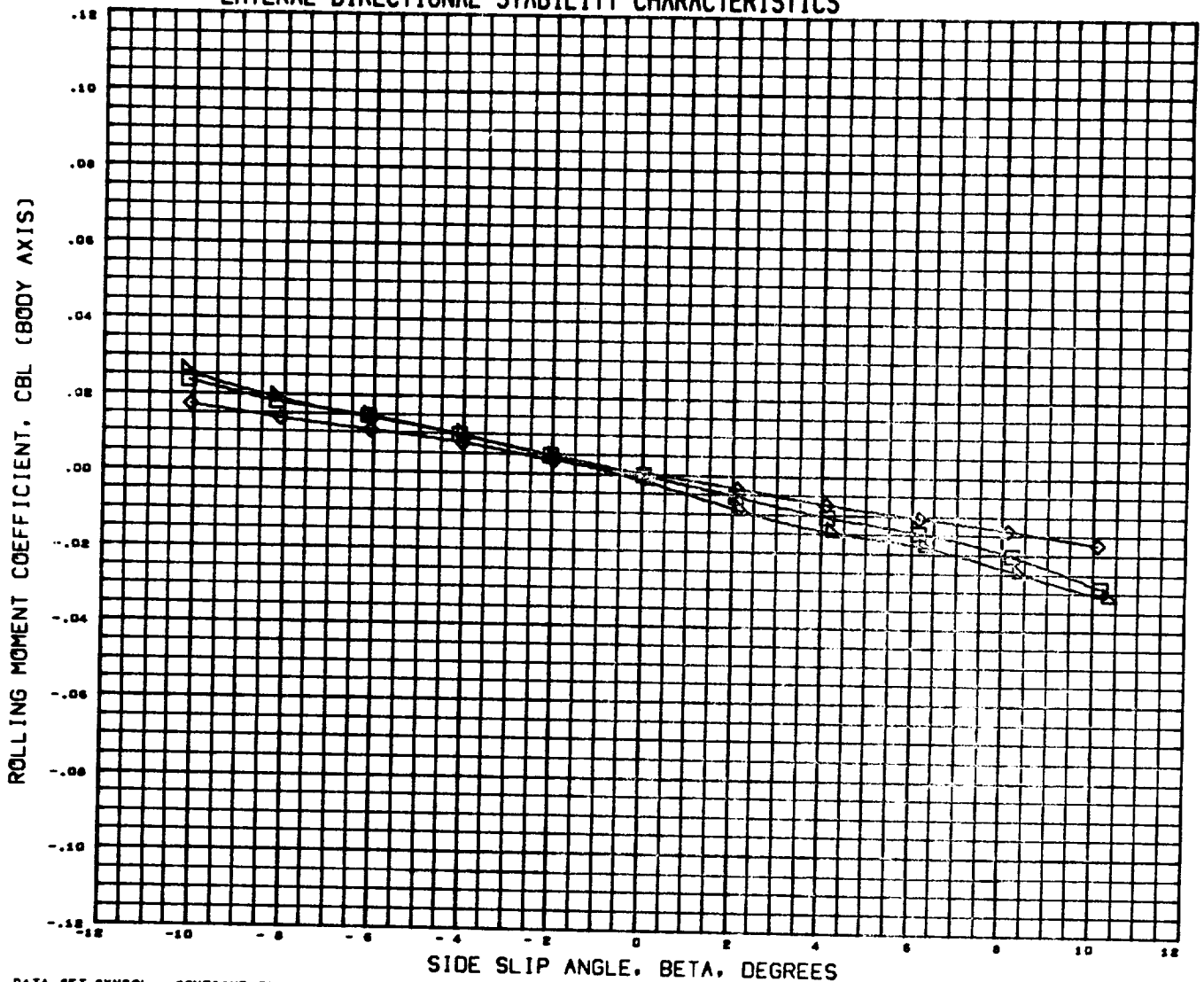
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR11981-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E3410G)	M492-MSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 in.
(E3410I)	M492-MSFC AR11981-1 MODEL B2W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 in.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 3.480

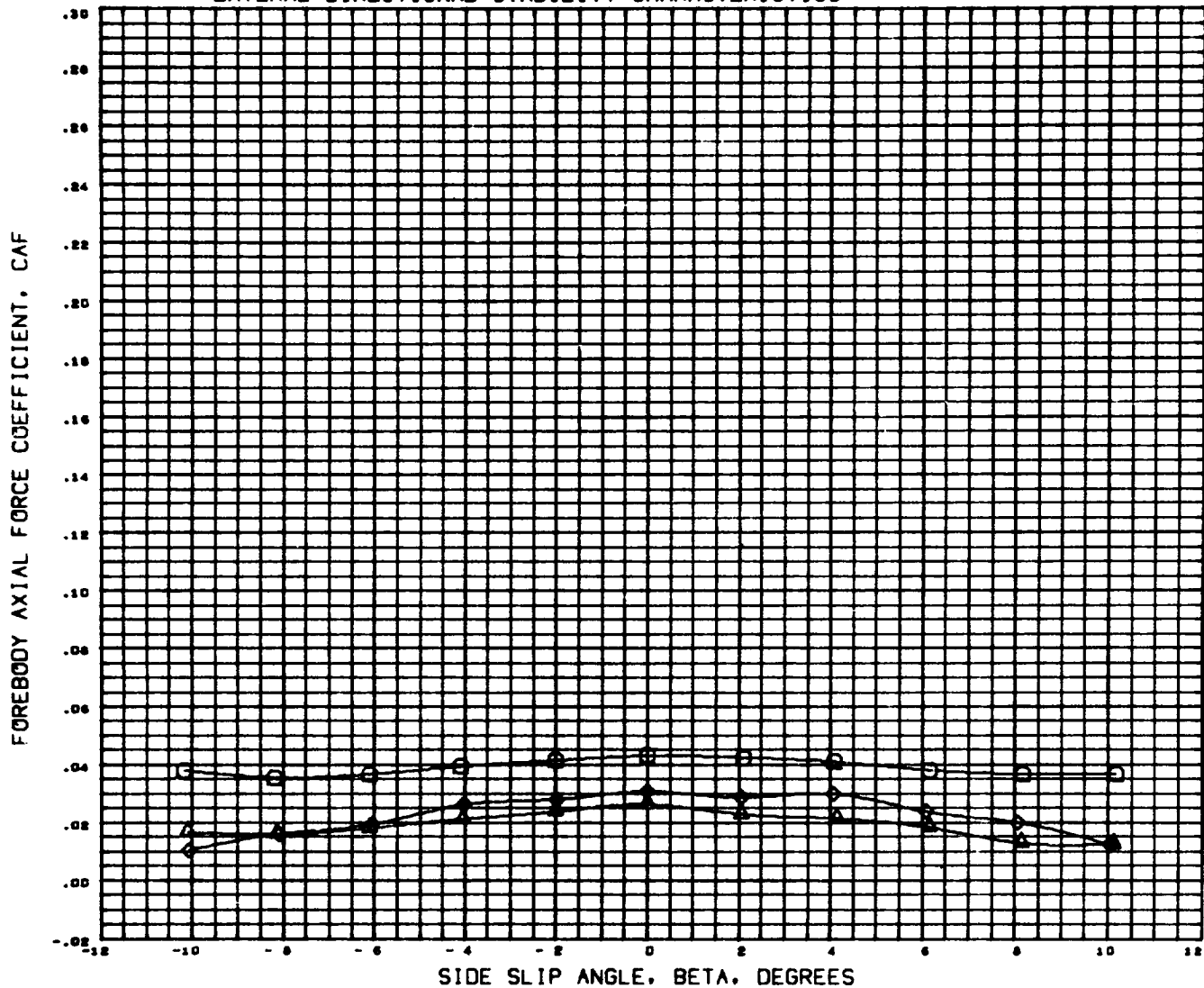
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 sq. in.
(E3410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(E3410H)	M492-HSFC AR11001-1 MODEL 82W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 in.
(E3410I)	M492-HSFC AR11001-1 MODEL 82W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 in.
(E3410J)	M492-HSFC AR11001-1 MODEL 82W6C12V1	51.000	0.000	0.000	0.000	YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 4.959

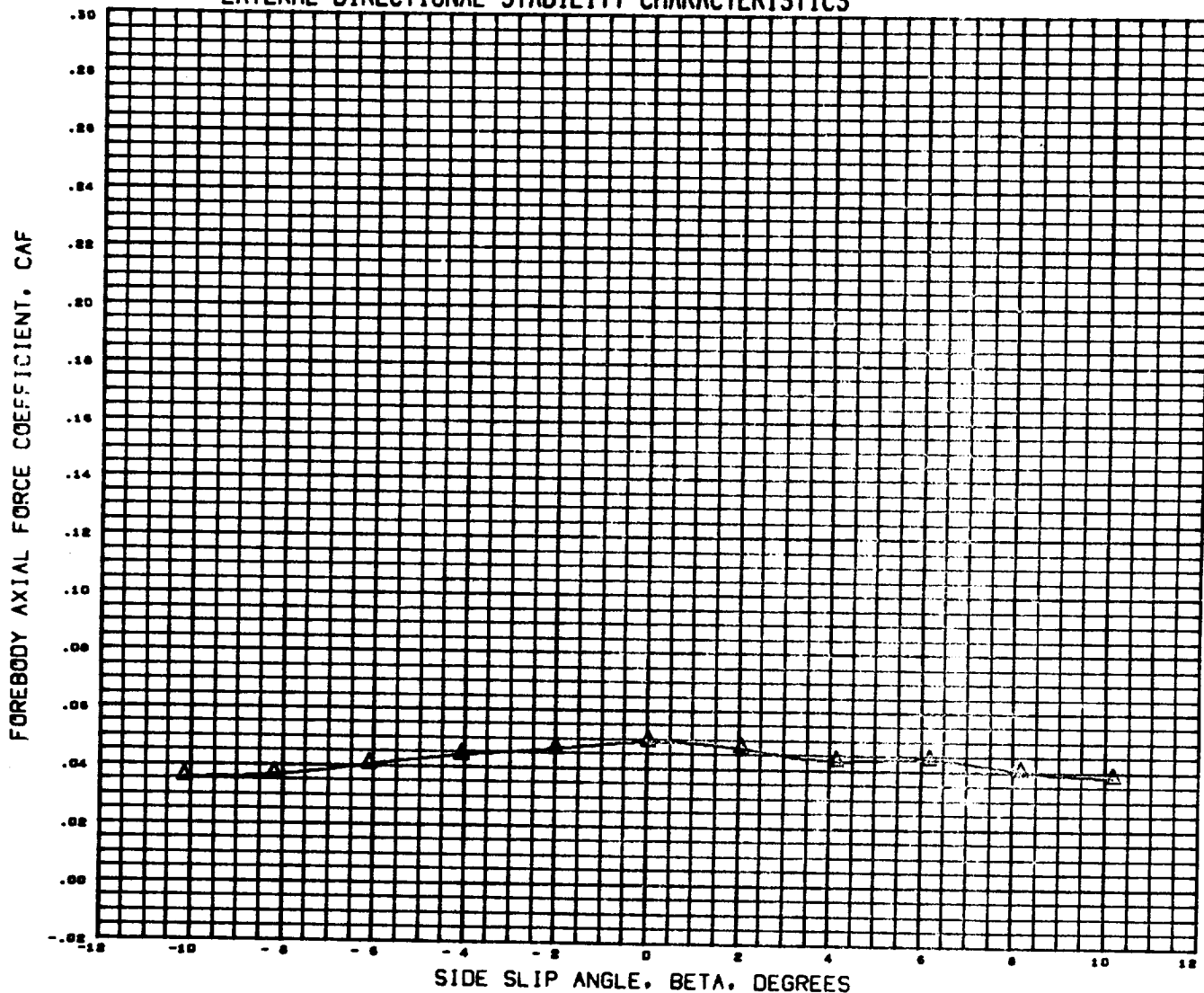
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR11981-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6229 90.IN.
(E3410G)	M492-MSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-MSFC AR11981-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XWRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YWRP 0.0000 IN.
						ZWRP 0.0000 IN.
						SCALE 0.0025

MACH 0.601

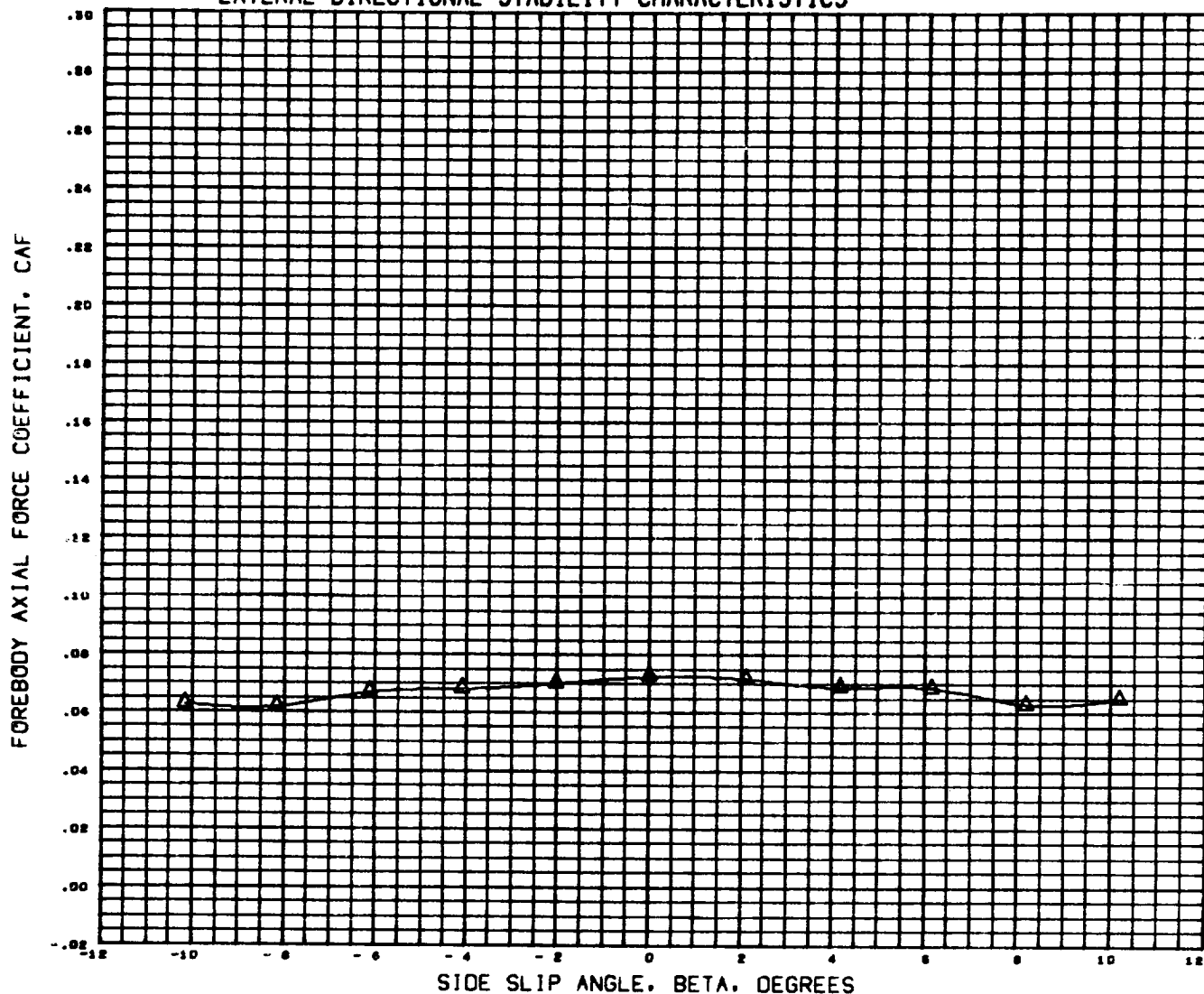
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	N492-NSFC AR11981-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025 IN.

MACH 0.797

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

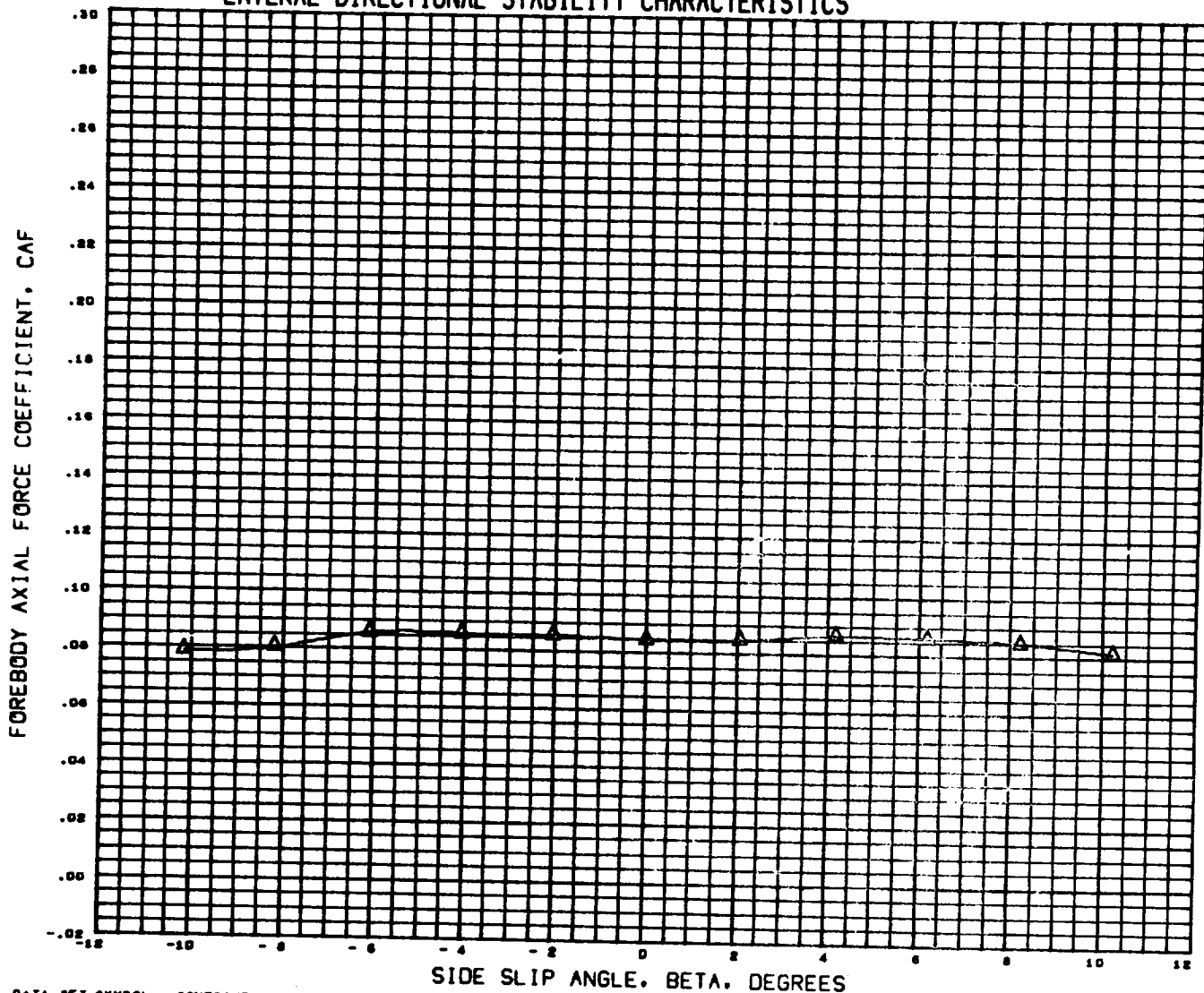


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 sq. in.
(E3410G)	M492-M8FC AR1981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 in.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 in.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 in.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	0.0000 in.
						ZMRP	0.0000 in.
						SCALE	0.0025

MACH 0.899

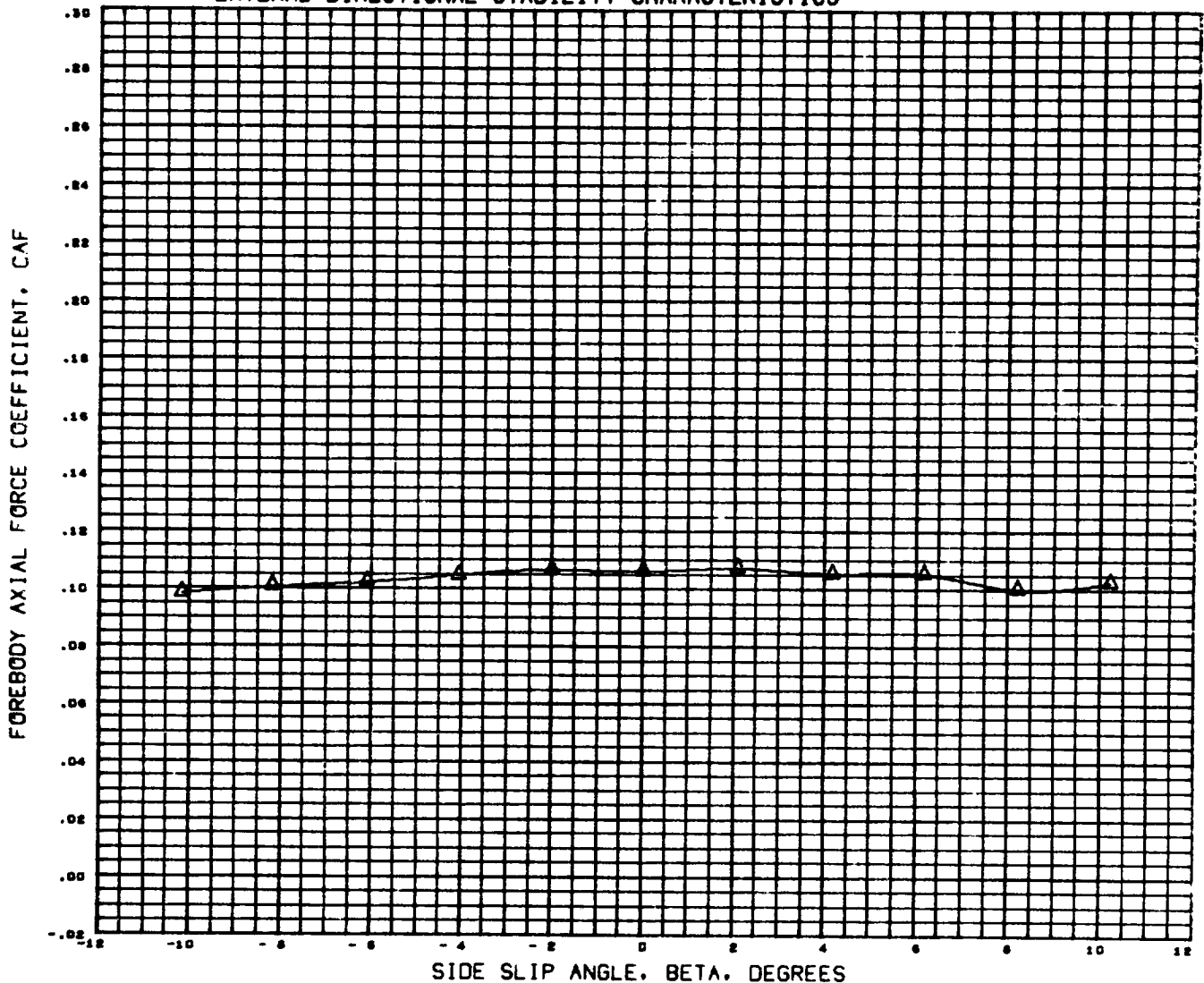
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 98. IN.
(E3410G)	M492-NSFC AR11981-1 MODEL B2MGC12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.849

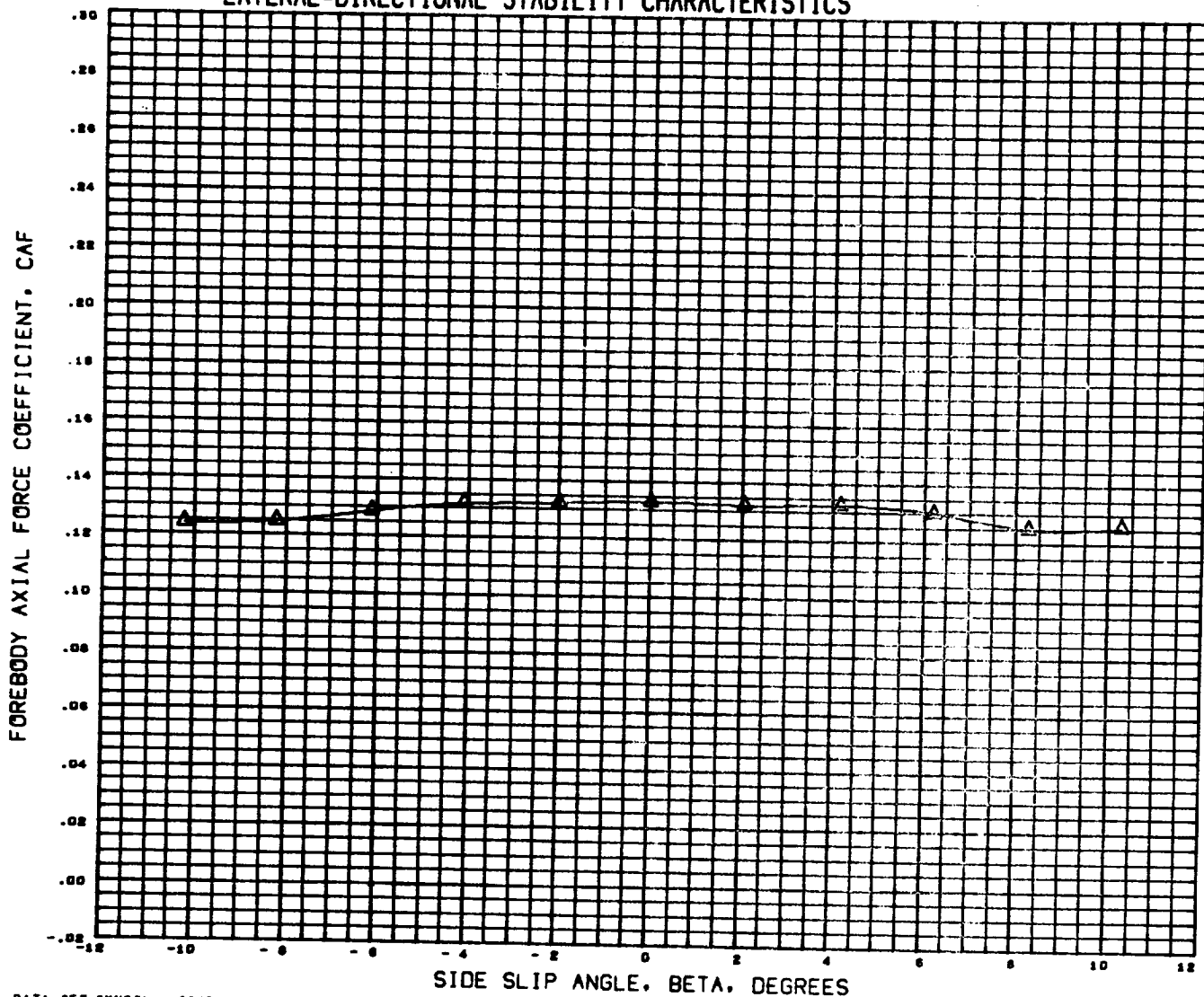
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
IES410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
IES410G)	M492-NBFC AR11991-1 MODEL BZWSC12V1	10.900	0.000	0.000	0.000	LREF	4.3000 IN.
IES410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.900	0.000	0.000	0.000	BREF	4.3000 IN.
IES410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
IES410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.990

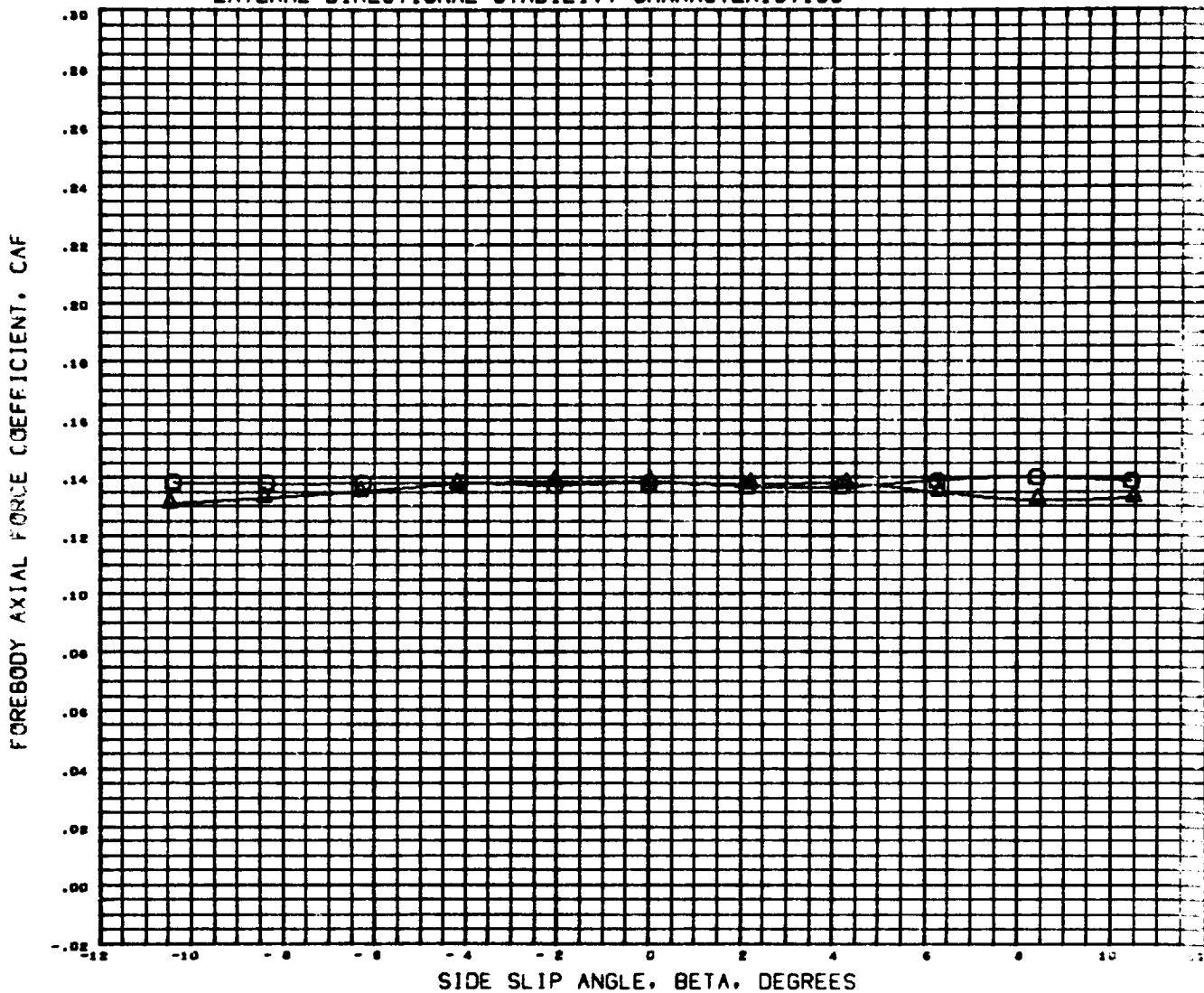
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3420F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 30.IN.
(E3410G)	M492-NSFC AR13961-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP	0.0000 IN.
						ZHRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

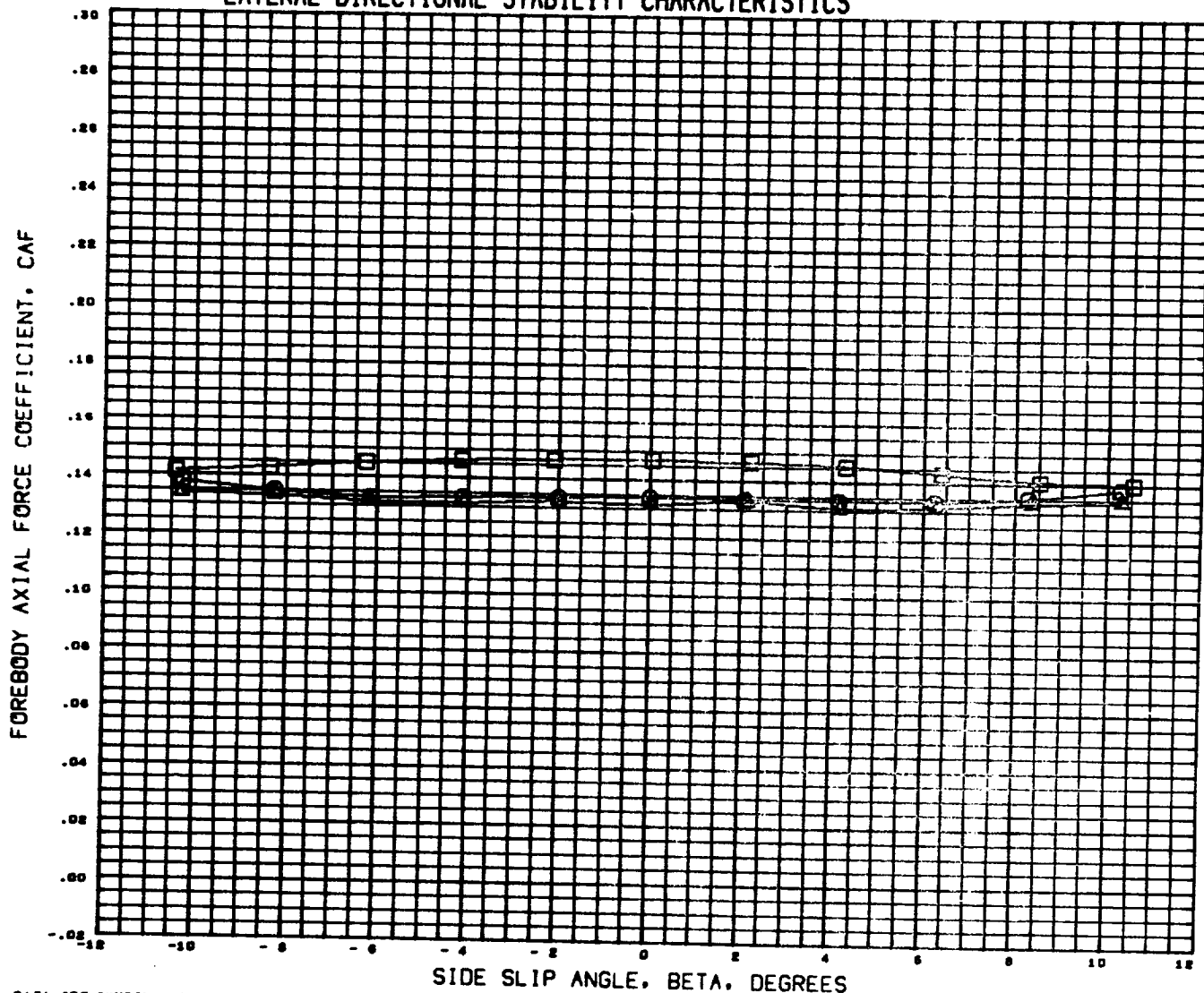
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E9410F)	M492-HSFC AR11981-1 MODEL BW6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 80.124
(E9410G)	M492-HSFC AR11981-1 MODEL BW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 10
(E9410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 20
(E9410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	21.000	0.000	0.000	0.000	XMRP 2.4000 20
(E9410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 0.0000 20
						ZMRP 0.0000 20
						SCAL 0.0000

MARK 1.2.1.1

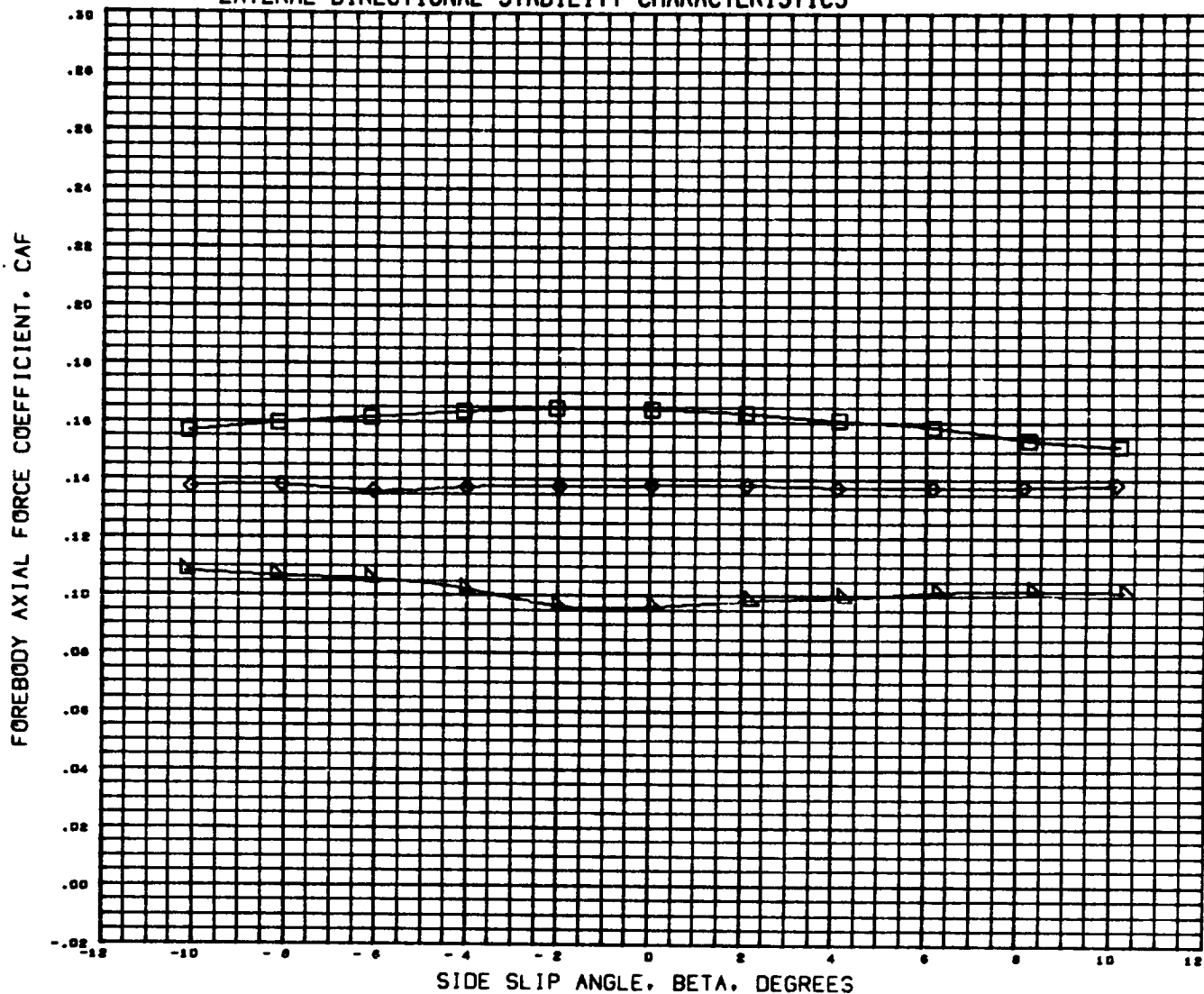
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR11981-1 MODEL 8ZW6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3410G)	M492-MSFC AR11981-1 MODEL 8ZW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	M492-MSFC AR11981-1 MODEL 8ZW6C12V1	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 3.400

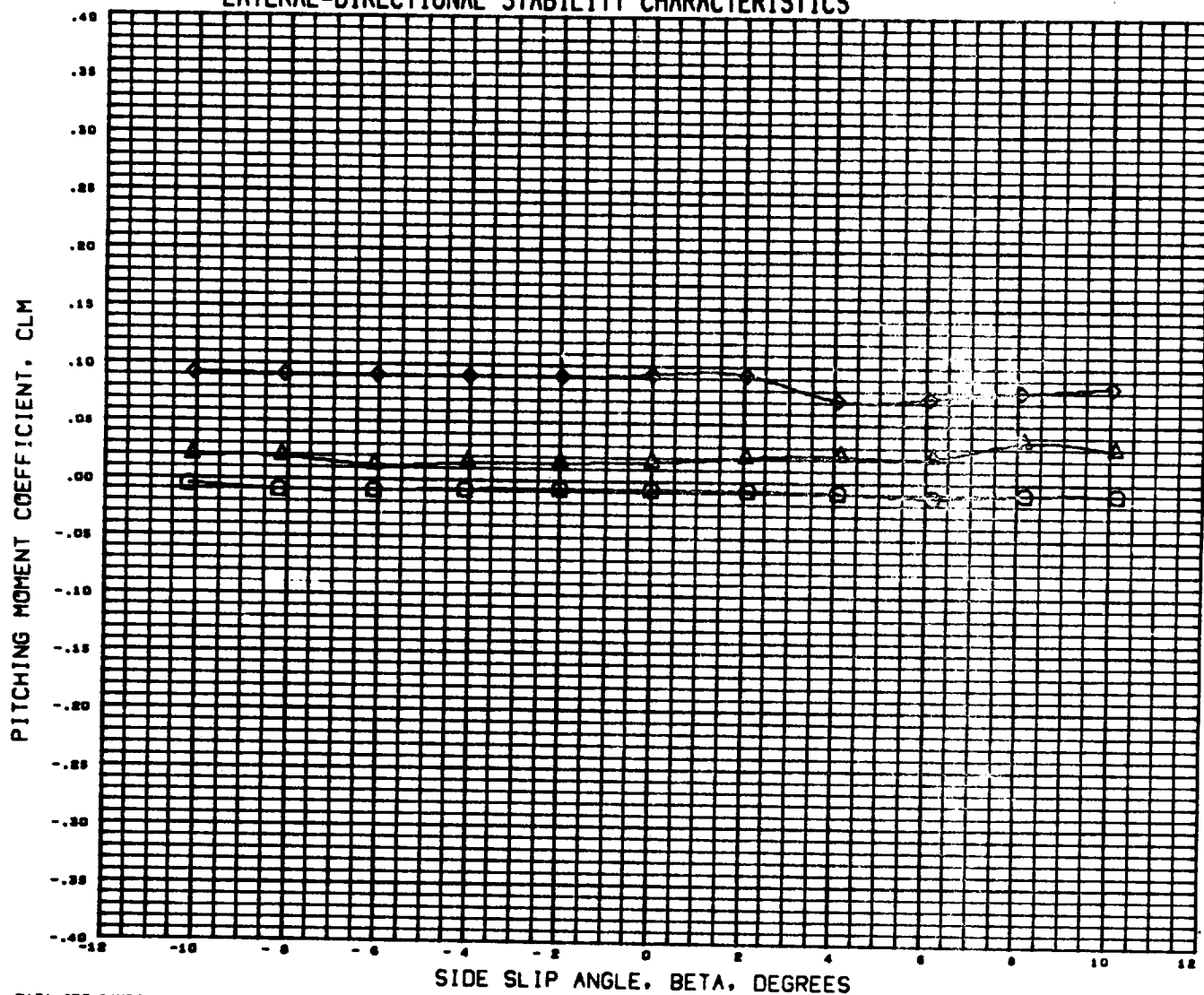
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 86 IN.
(E9410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E9410H)	N492-H8FC AR11991-1 MODEL BWSC12V1	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E9410I)	N492-H8FC AR11991-1 MODEL BWSC12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E9410J)	N492-H8FC AR11991-1 MODEL BWSC12V1	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 4.959

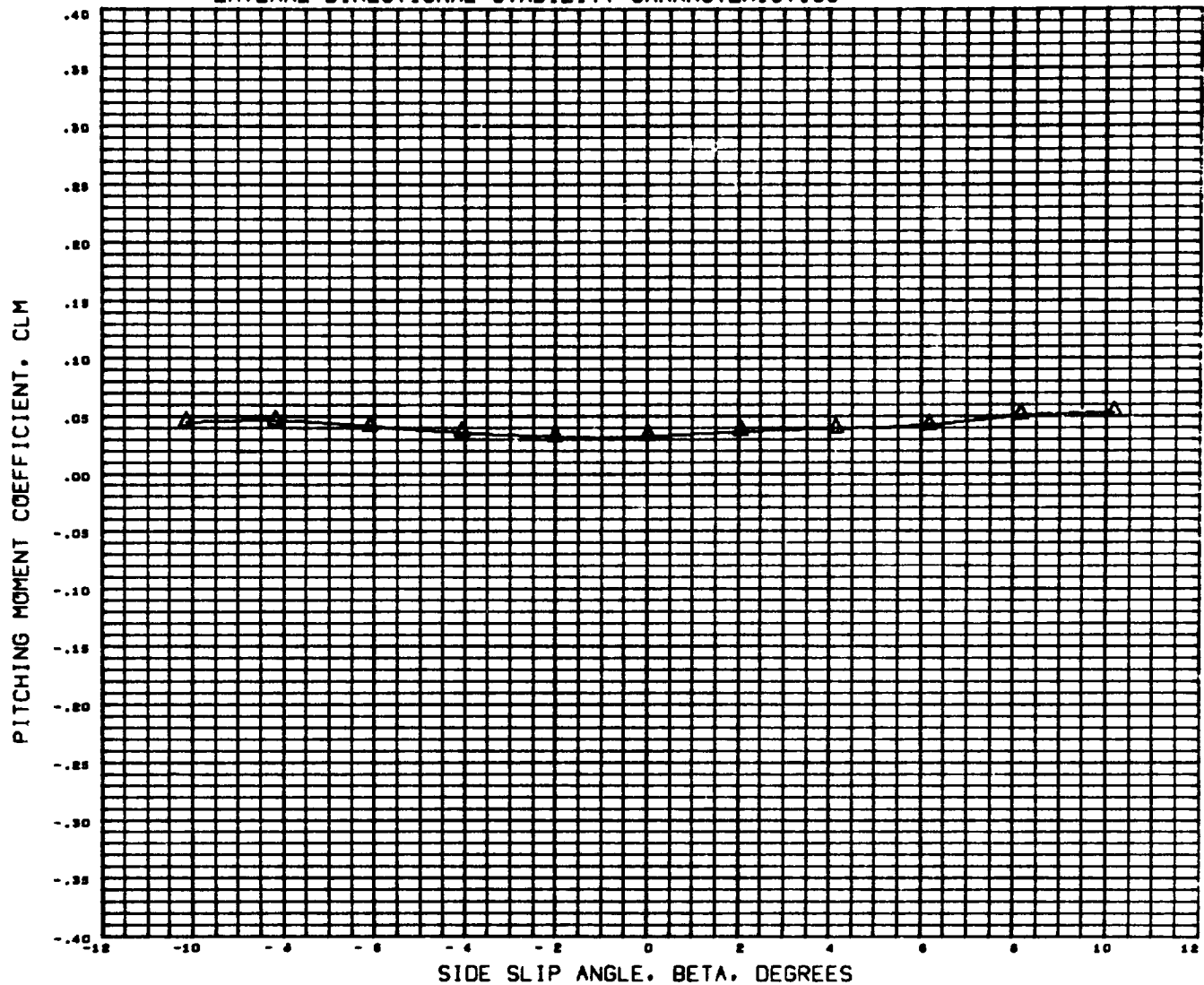
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR11001-1 MODEL 82WSC12V1	0.000	0.000	0.000	0.000	SREF 4.6225 50.IN.
(E3410G)	M492-NSFC AR11001-1 MODEL 82WSC12V1	10.000	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-NSFC AR11001-1 MODEL 82WSC12V1	15.000	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.851

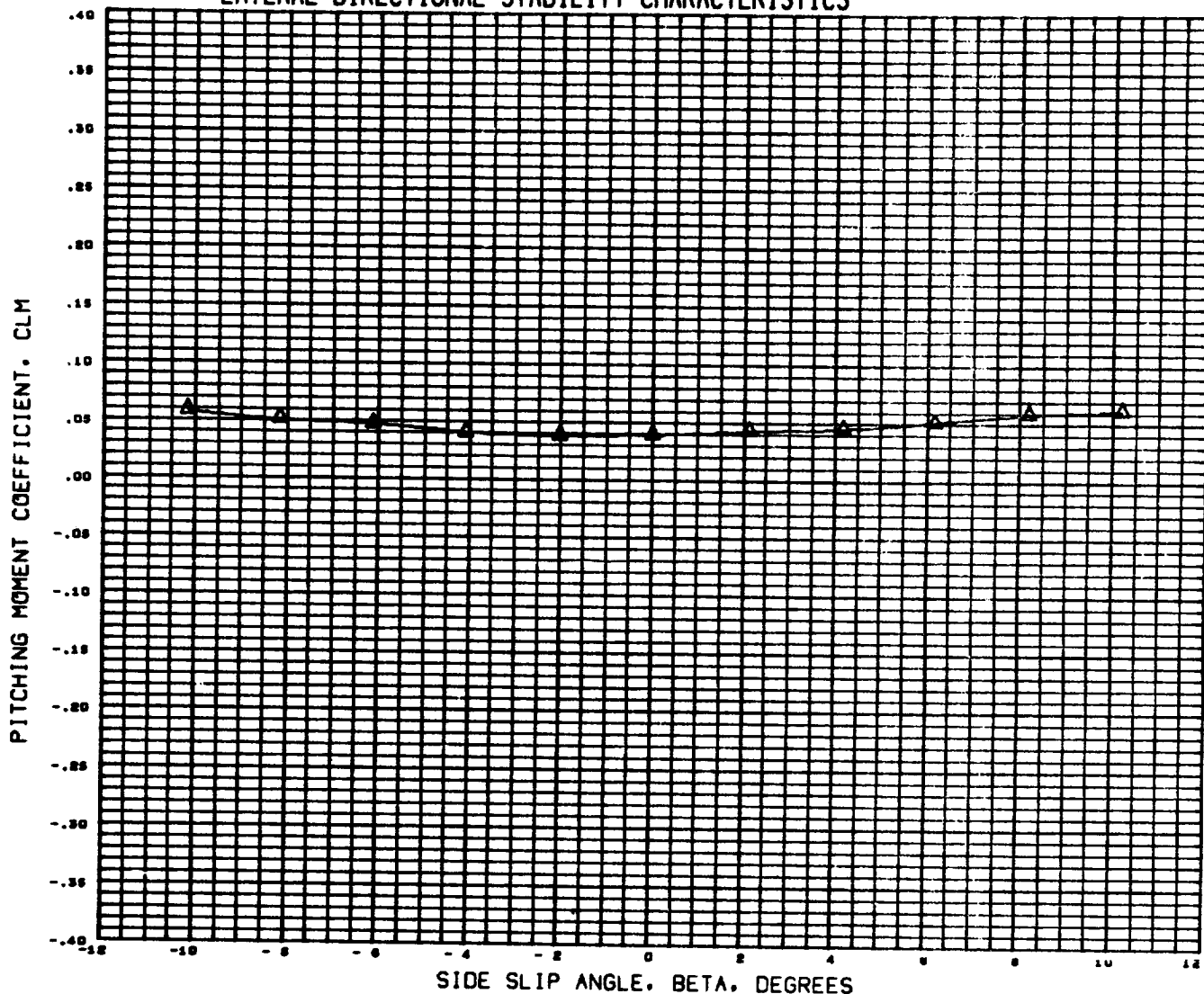
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50. IN.
(E9410G)	M492-HSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E9410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E9410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E9410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.797

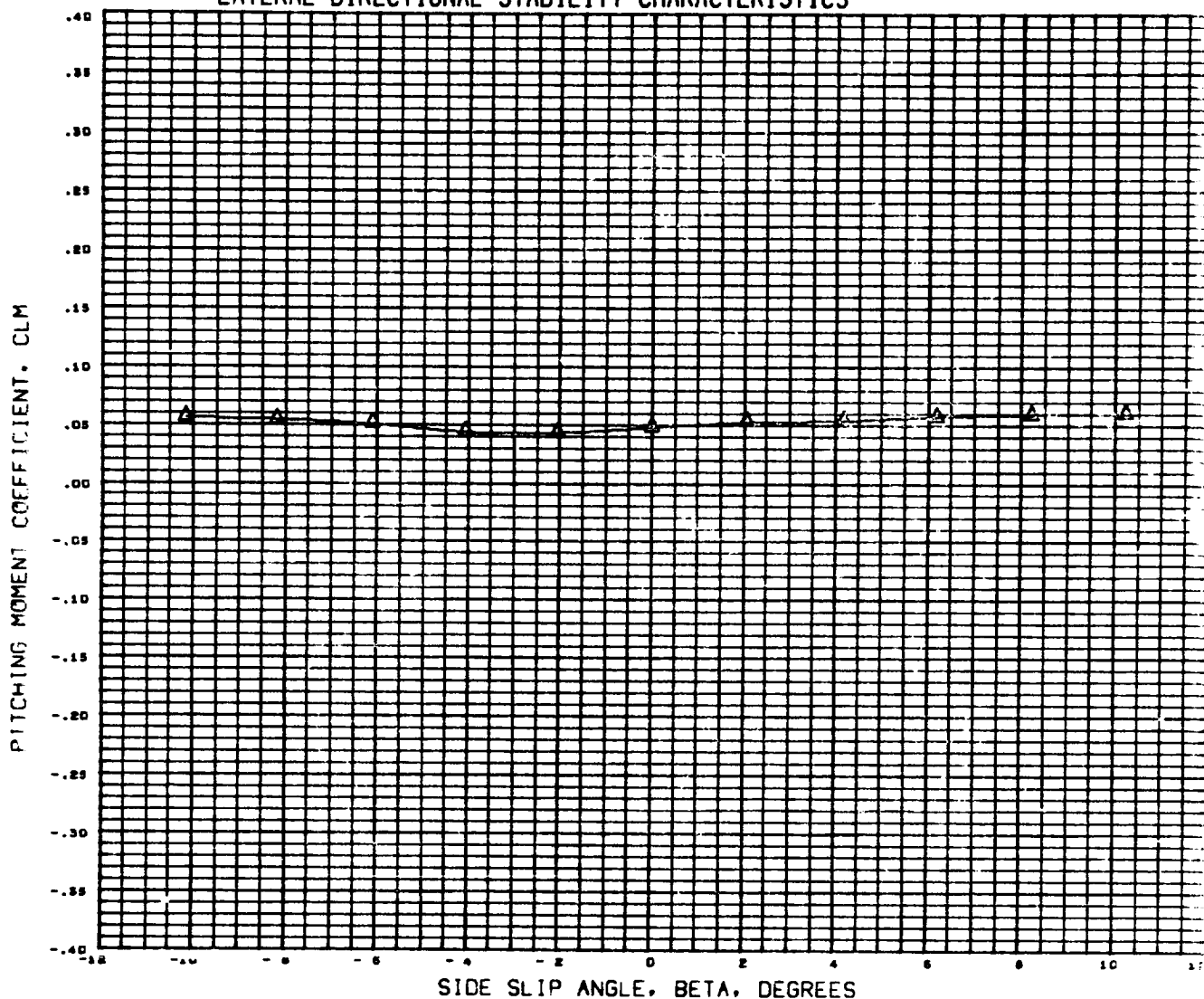
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	M492-NBFC AR11901-1 NOBEL BWGCI2V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.899

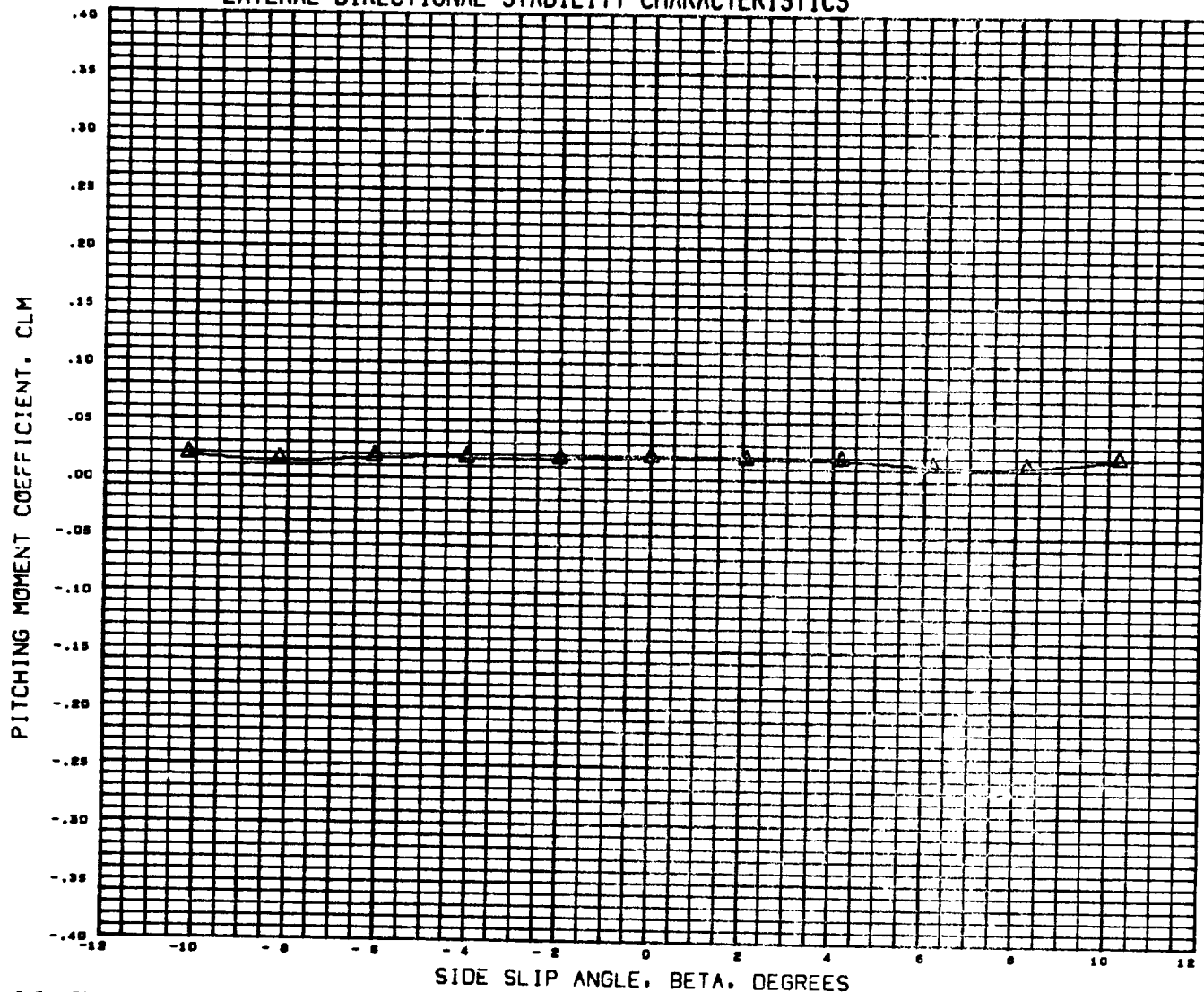
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6825 80...
(E3410G)	M492-HBFC AR11901-1 MODEL B2H6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 1A...
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1A...
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YREF 2.4000 1A...
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	ZREF 0.0000 1A...
						SCALE 0.0025 1A...

MACH 0.94

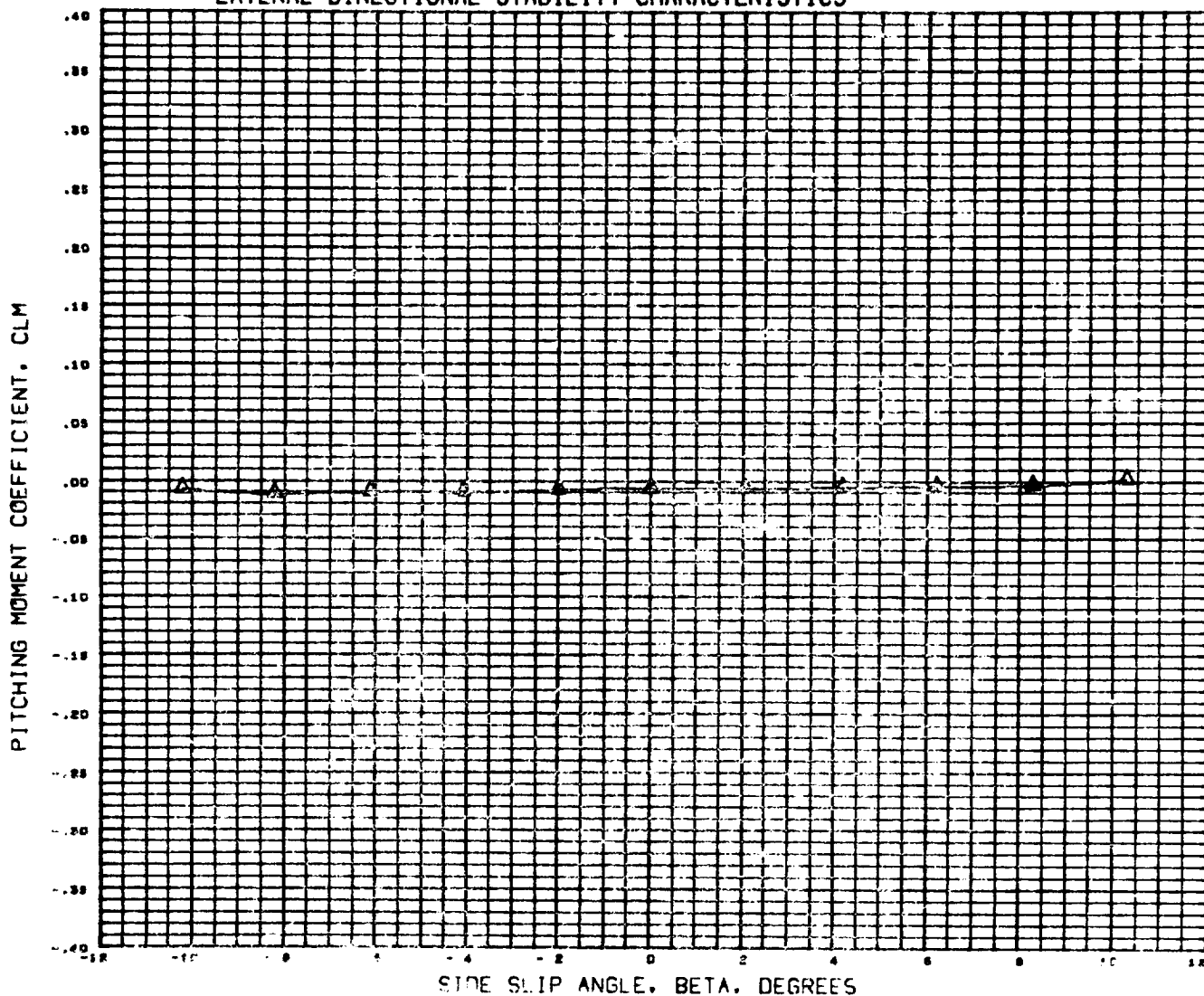
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3410G)	M492-NSFC AR15981-1 MODEL B2M6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XNRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP	0.0000 IN.
						ZNRP	0.0000 IN.
						SCALE	0.0025

MACH 0.998

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

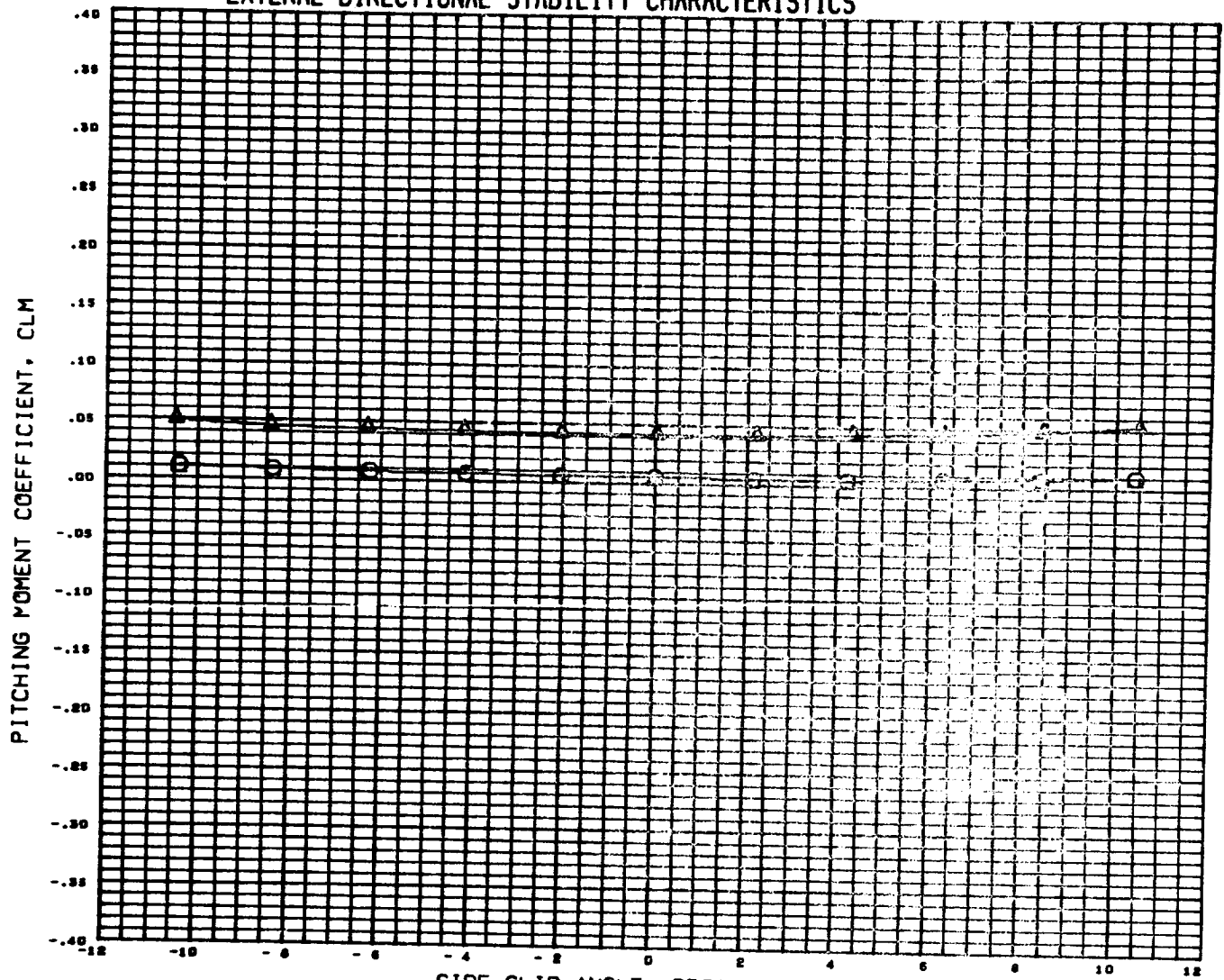


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E3410G)	M492-MSFC AR119P1-1 MODEL BW5CJ2V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 2.0000

091

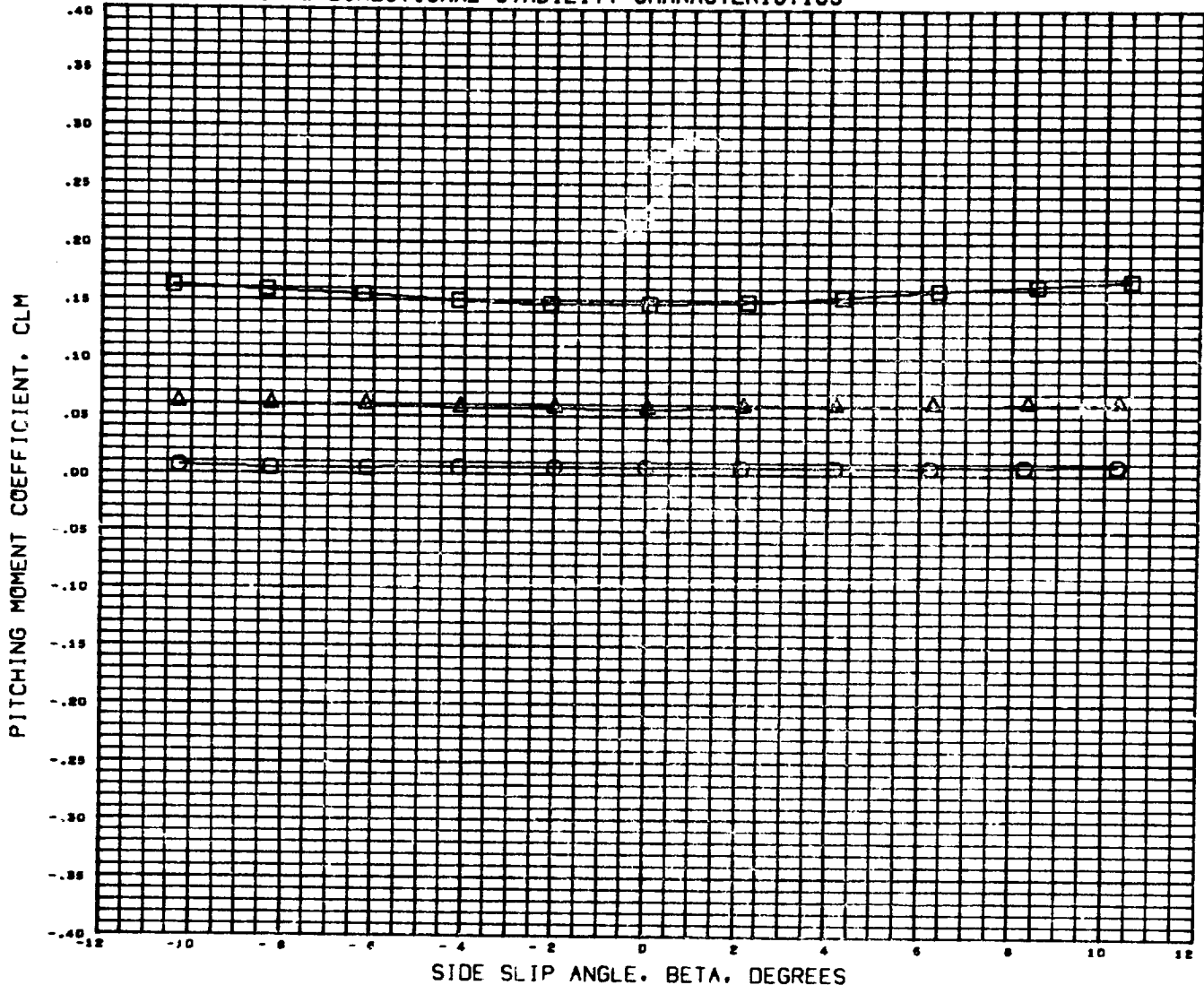
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	CROSS OVER	N492-NSFC	AR11901-1 MODEL B2WSC12V1	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3410G)		N492-NSFC	AR11901-1 MODEL B2WSC12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)		DATA NOT AVAILABLE FOR ALL CONDITIONS		15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)		DATA NOT AVAILABLE FOR ALL CONDITIONS		31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)		DATA NOT AVAILABLE FOR ALL CONDITIONS		51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
								ZMRP	0.0000 IN.
								SCALE	0.0025

MACH 1.950

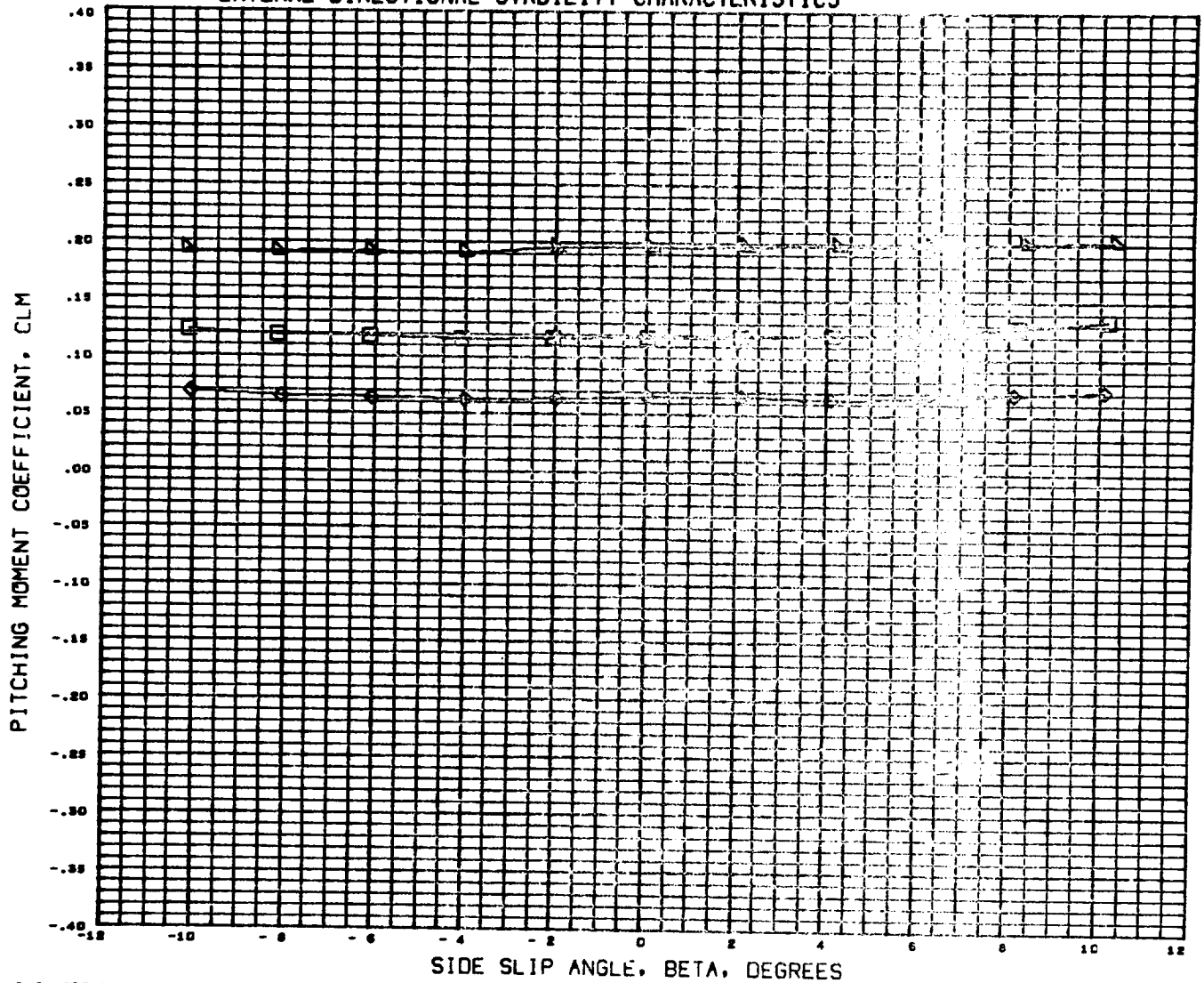
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR11981-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 88 IN.
(E3410G)	M492-MSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	M492-MSFC AR11981-1 MODEL B2W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.6000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

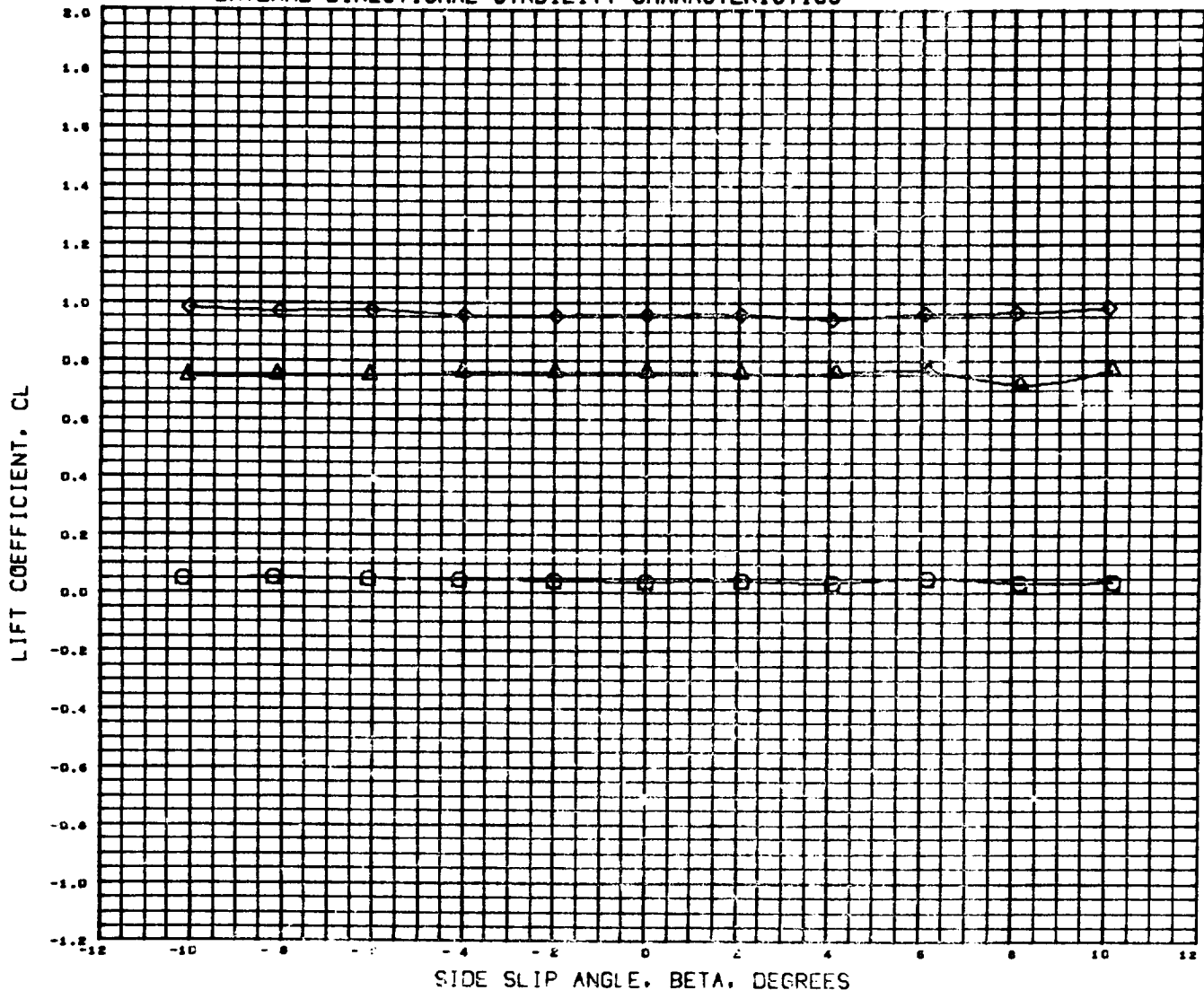
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 38. IN.
(E3410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	N492-MSFC AR11981-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	N492-MSFC AR11981-1 MODEL B2W6C12V1	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	N492-MSFC AR11981-1 MODEL B2W6C12V1	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 4.959

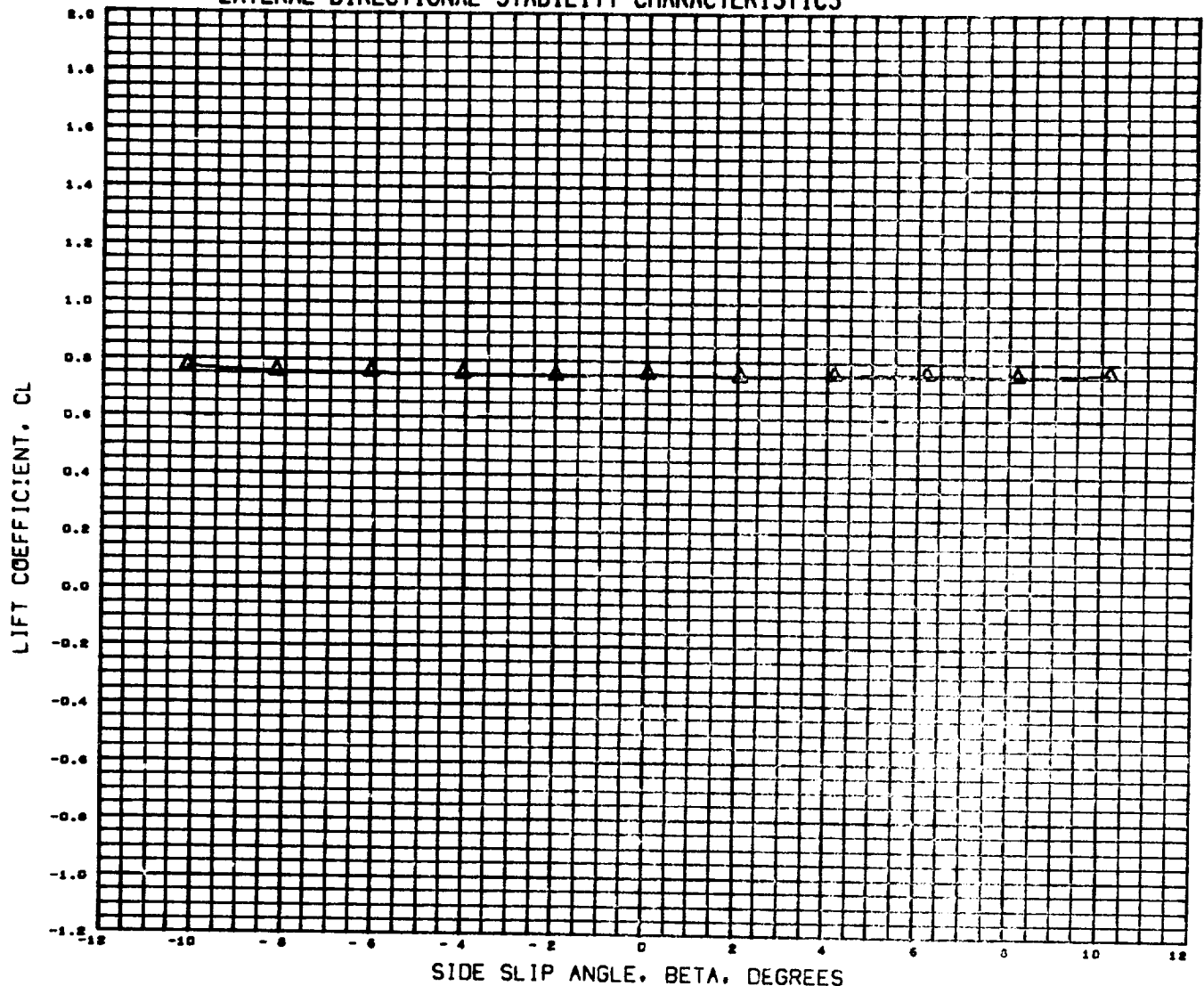
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR1190-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 90.IN.
(E3410G)	M492-MSFC AR1190-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-MSFC AR1190-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

NACH 0.025

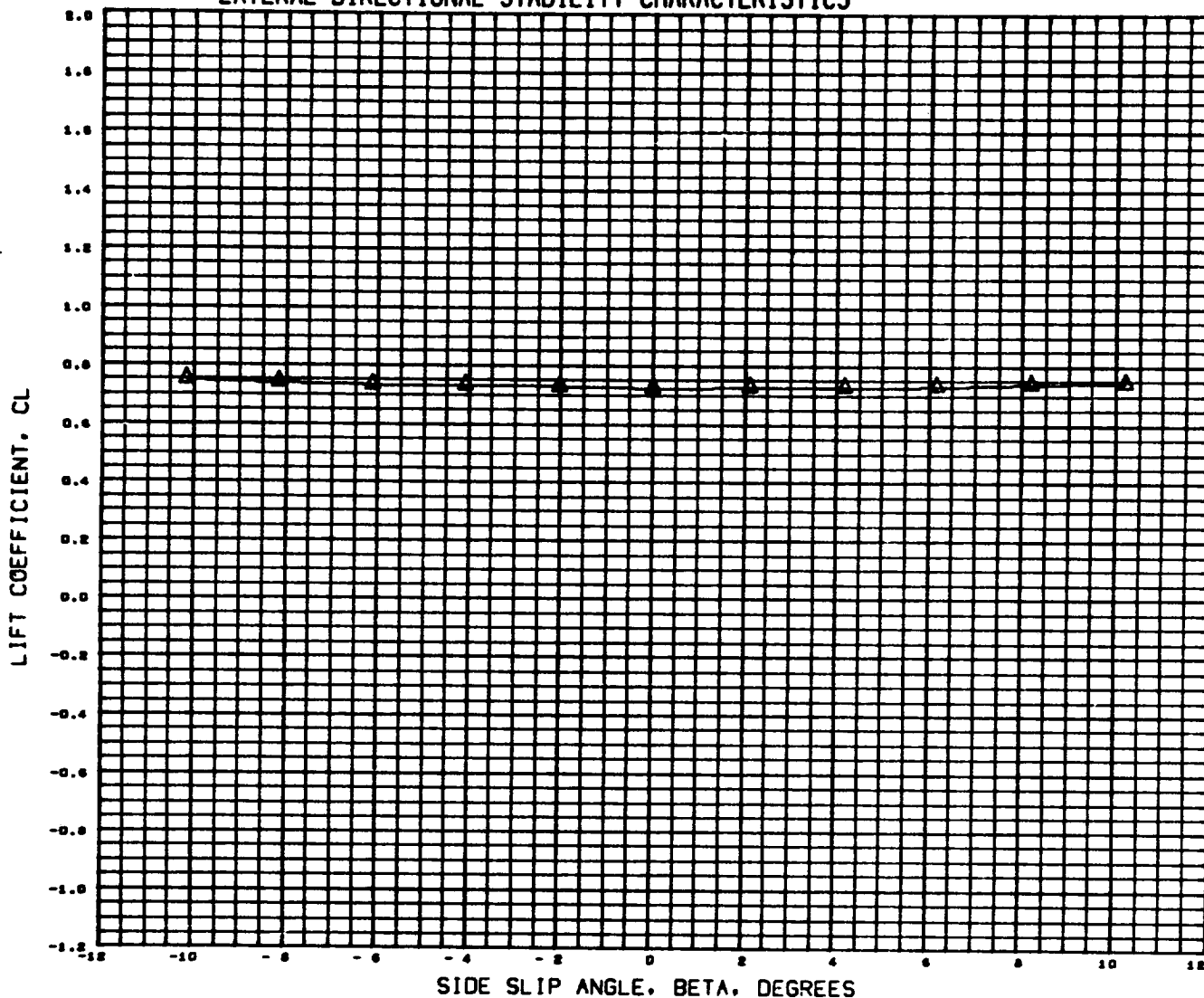
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 SQ. IN.
(E3410G)	M492-HSFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.797

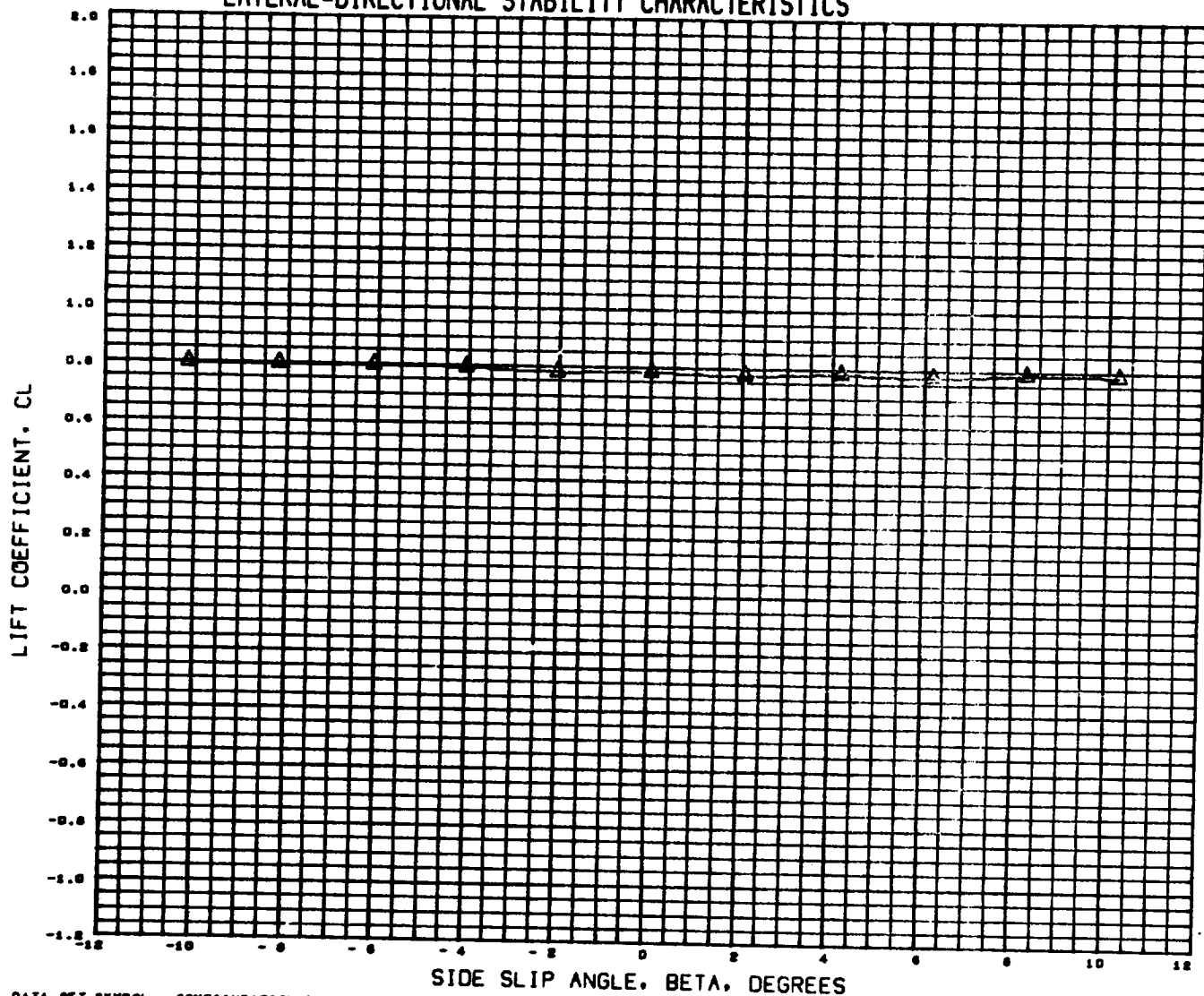
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	BREF	4.6225 80. IN.
(E3410G)	N492-HSFC AR1981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.500	0.000	0.000	0.000	XNRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP	0.0000 IN.
						ZNRP	0.0000 IN.
						SCALE	0.0025

MACH 0.899

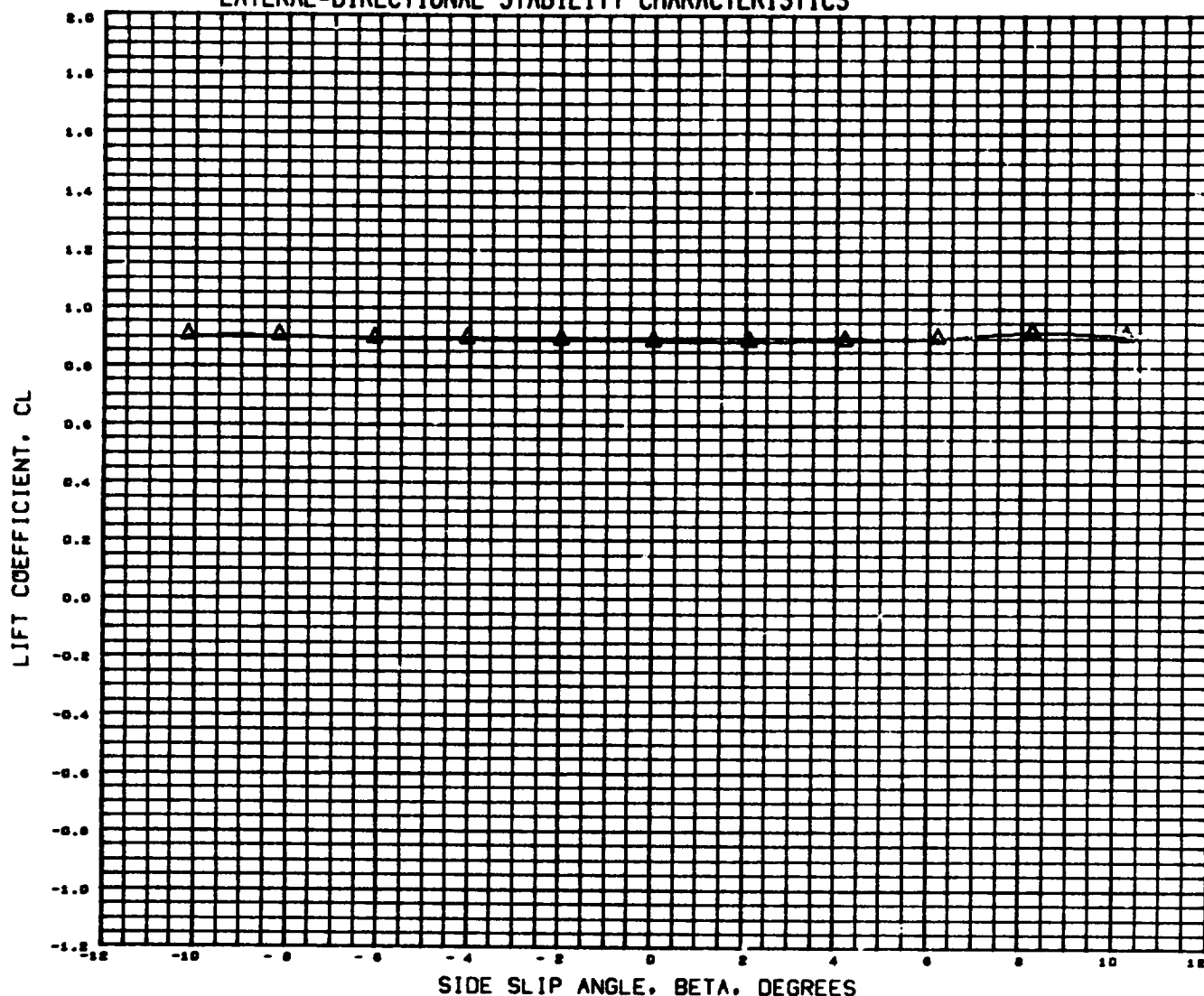
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 50. IN.
(E3410G)	M492-MSFC AR11901-1 MODEL B2H6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 5.949

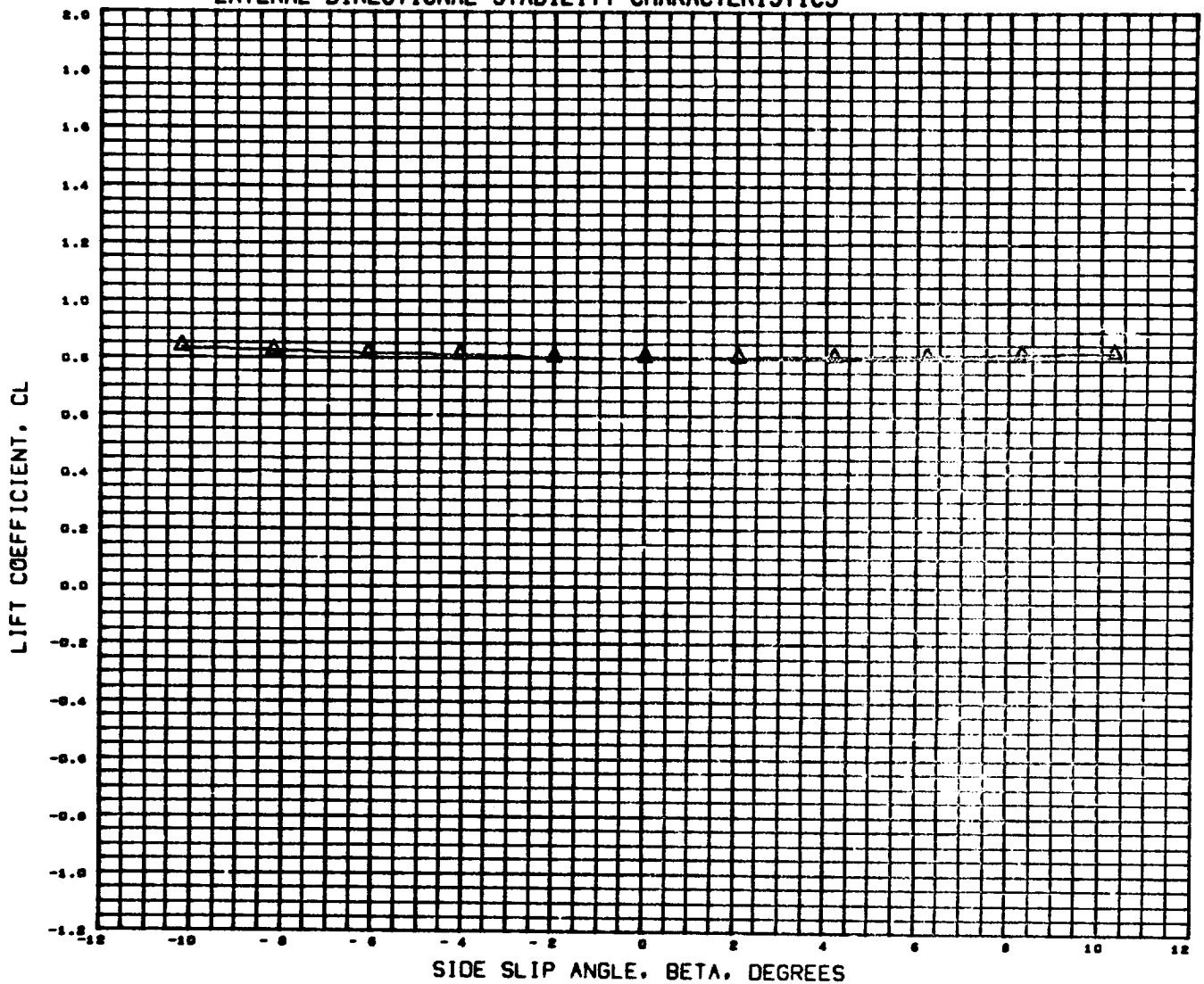
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 80.IN.
(E3410G)	M492-MSFC AR1981-1 MODEL 8EW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	21.000	0.000	0.000	0.000	YNRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	21.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						SCALE 0.0025 IN.

MACH 0.998

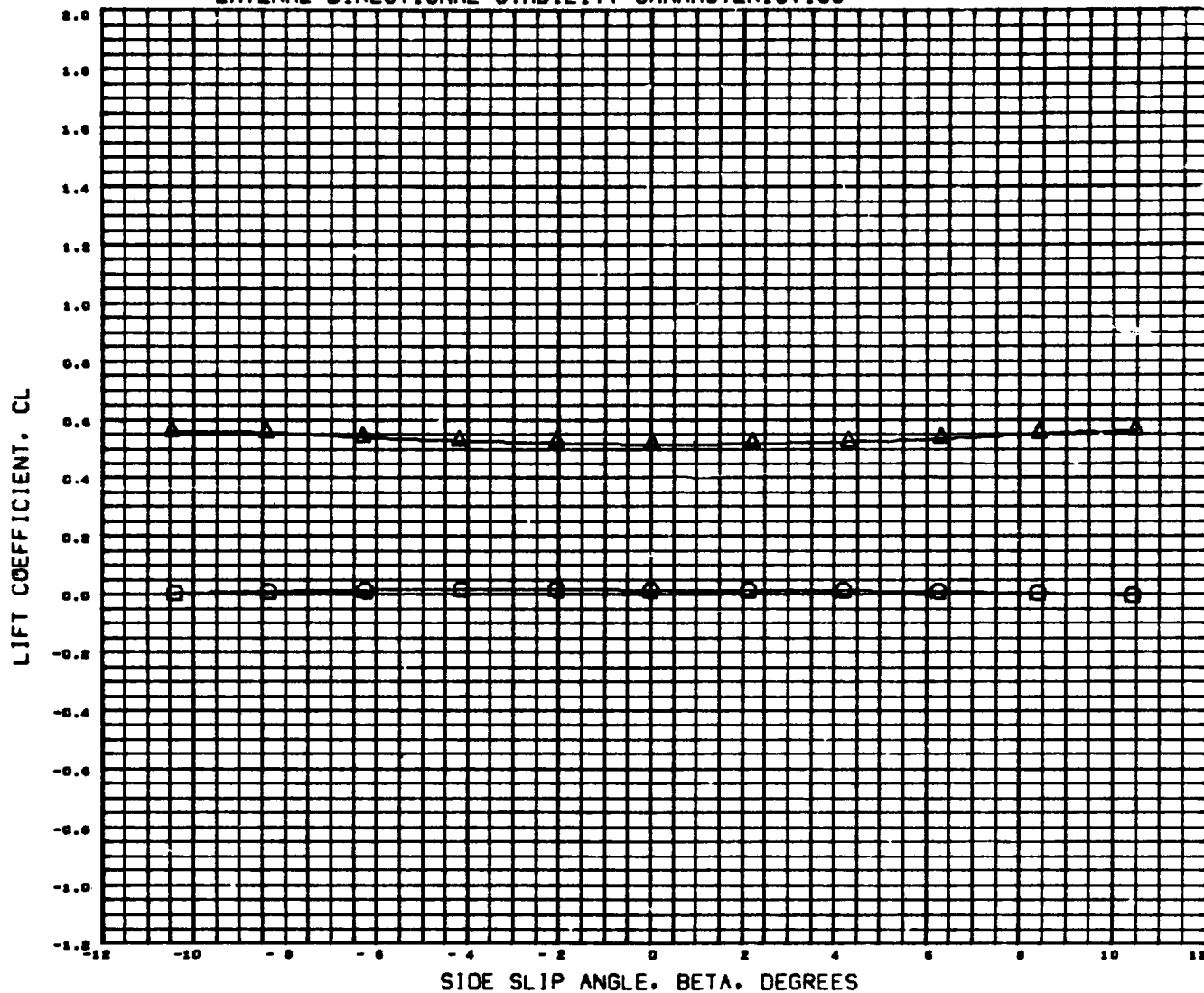
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SNCF 4.6225 50.IN.
(E3410G)	M492-HSFC AR11901-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0525

MACH 1.100

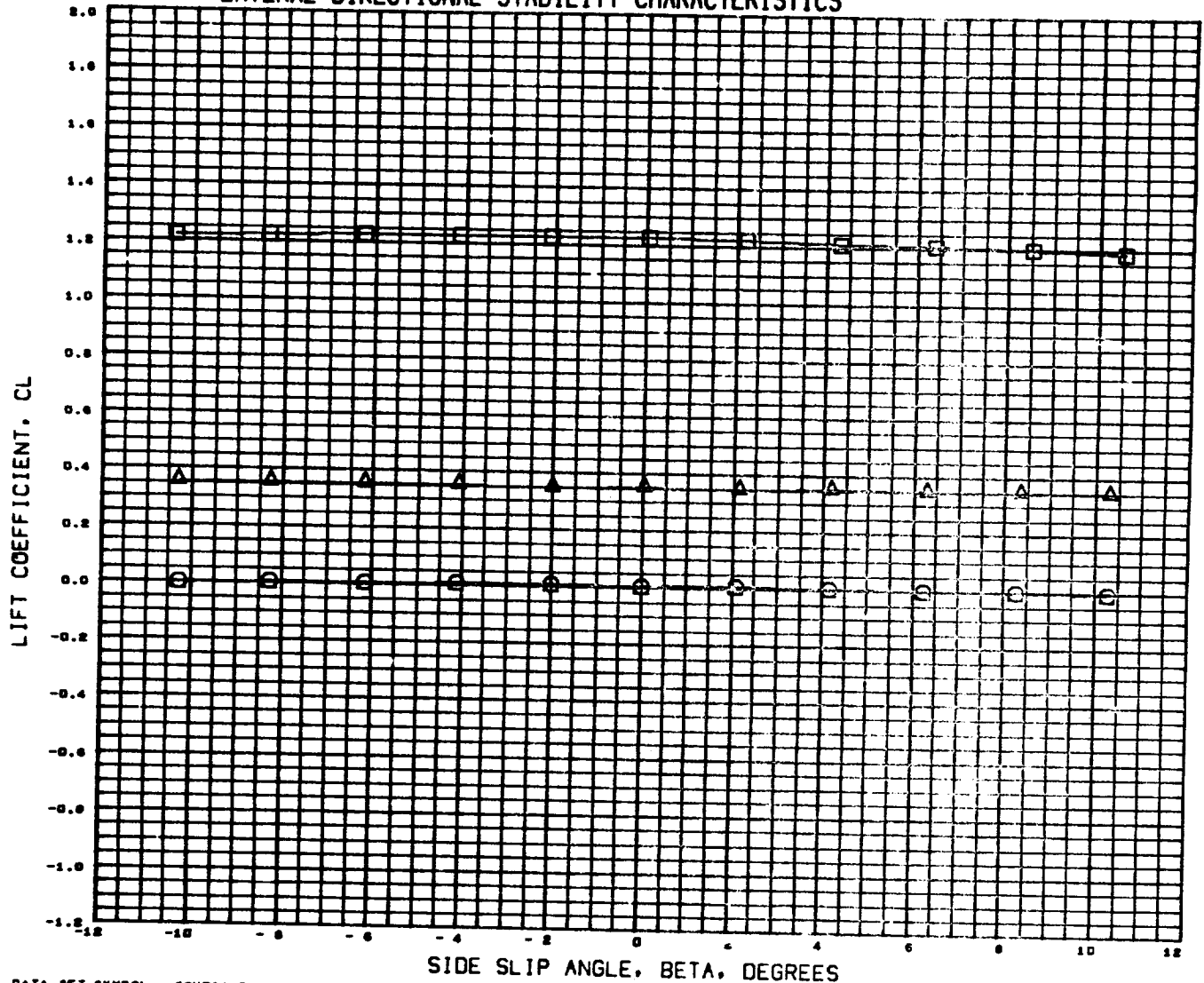
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR11961-1 MODEL 82W6C12V1	0.000	0.000	0.000	0.000	BREF 4.6225 88 IN.
(E3410G)	M492-NSFC AR11961-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	19.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 1.958

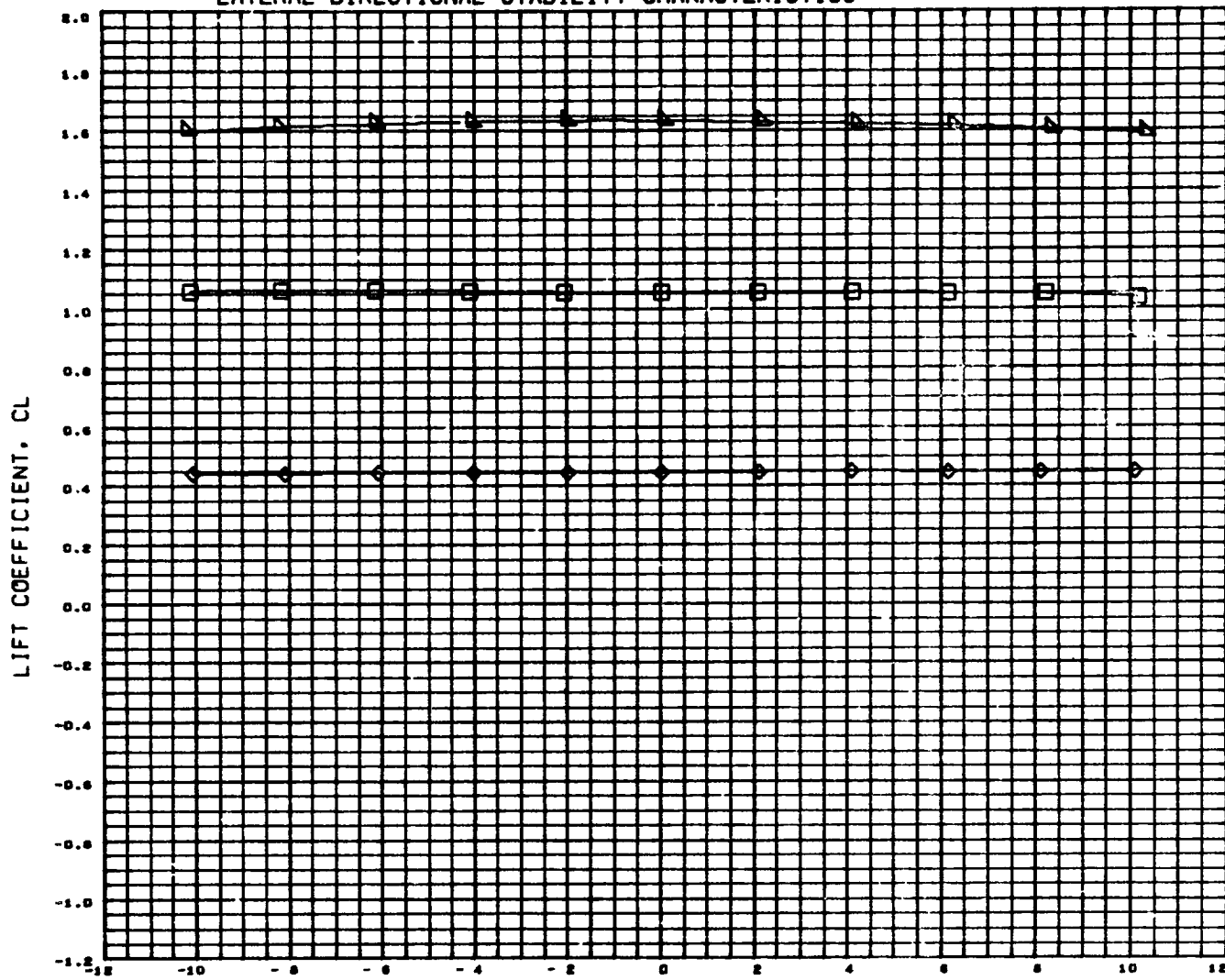
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	N492-MSFC AR11901-1 MODEL BZW6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 80.IN.
(E3410G)	N492-MSFC AR11901-1 MODEL BZW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	N492-MSFC AR11901-1 MODEL BZW6C12V1	31.000	0.000	0.000	0.000	XWRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YWRP 0.0000 IN.
						ZWRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

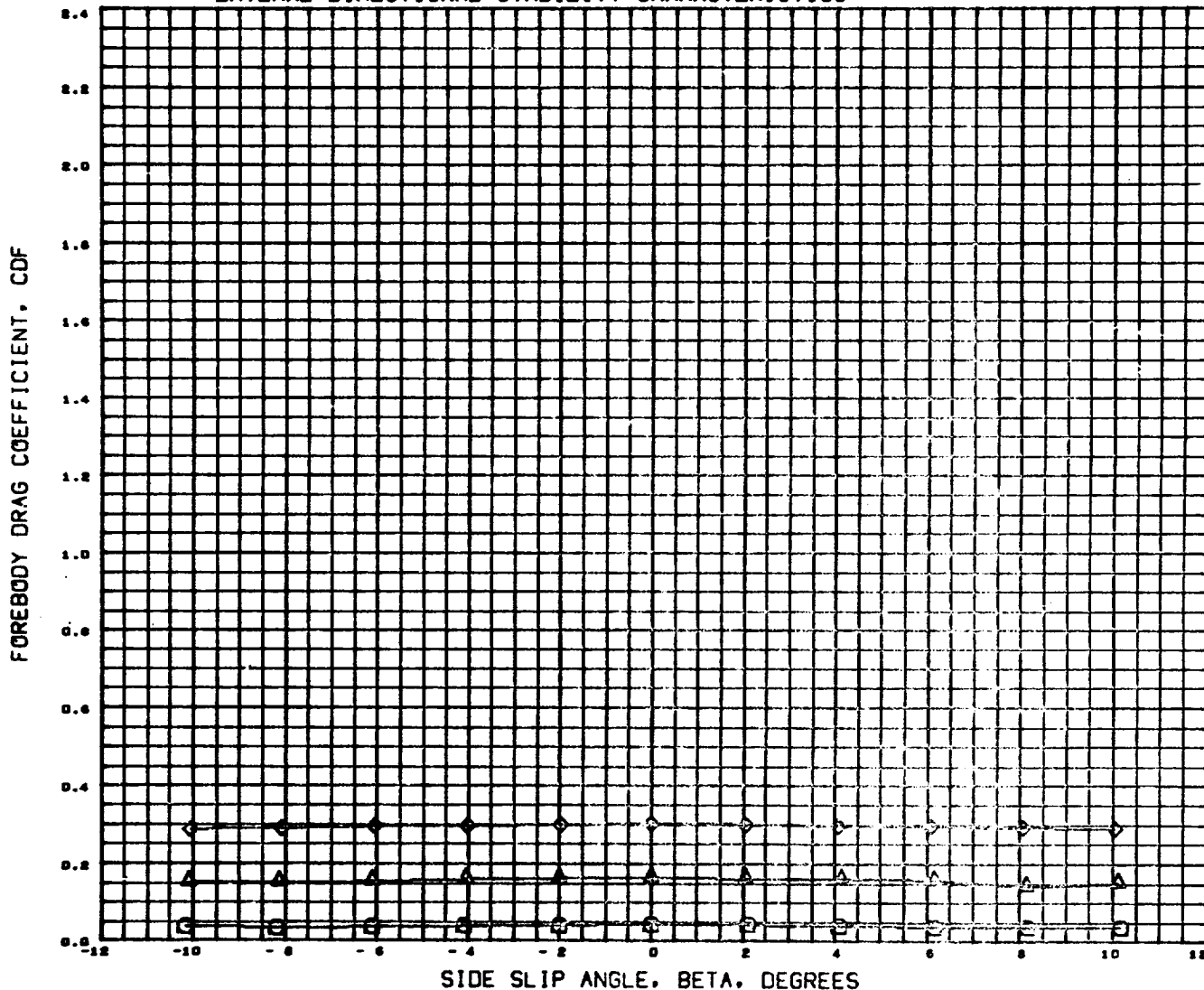
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 SQ.IN.
(E3410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-M5FC AR11981-1 MODEL 82W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	M492-M5FC AR11981-1 MODEL 82W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	M492-M5FC AR11981-1 MODEL 82W6C12V1	53.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.959

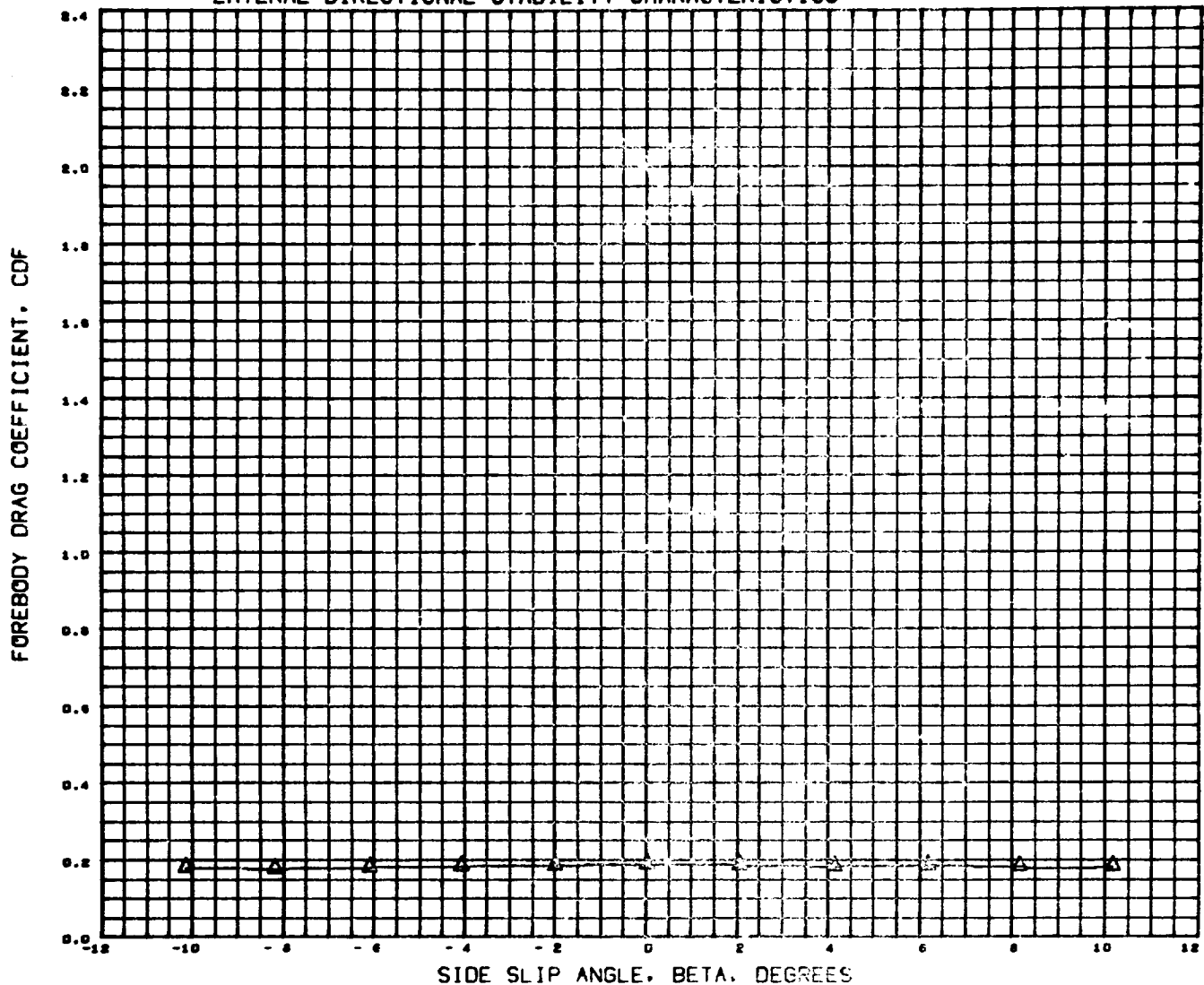
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR11981-1 MODEL BZW6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	M492-MSFC AR11981-1 MODEL BZW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	M492-MSFC AR11981-1 MODEL BZW6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.601

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

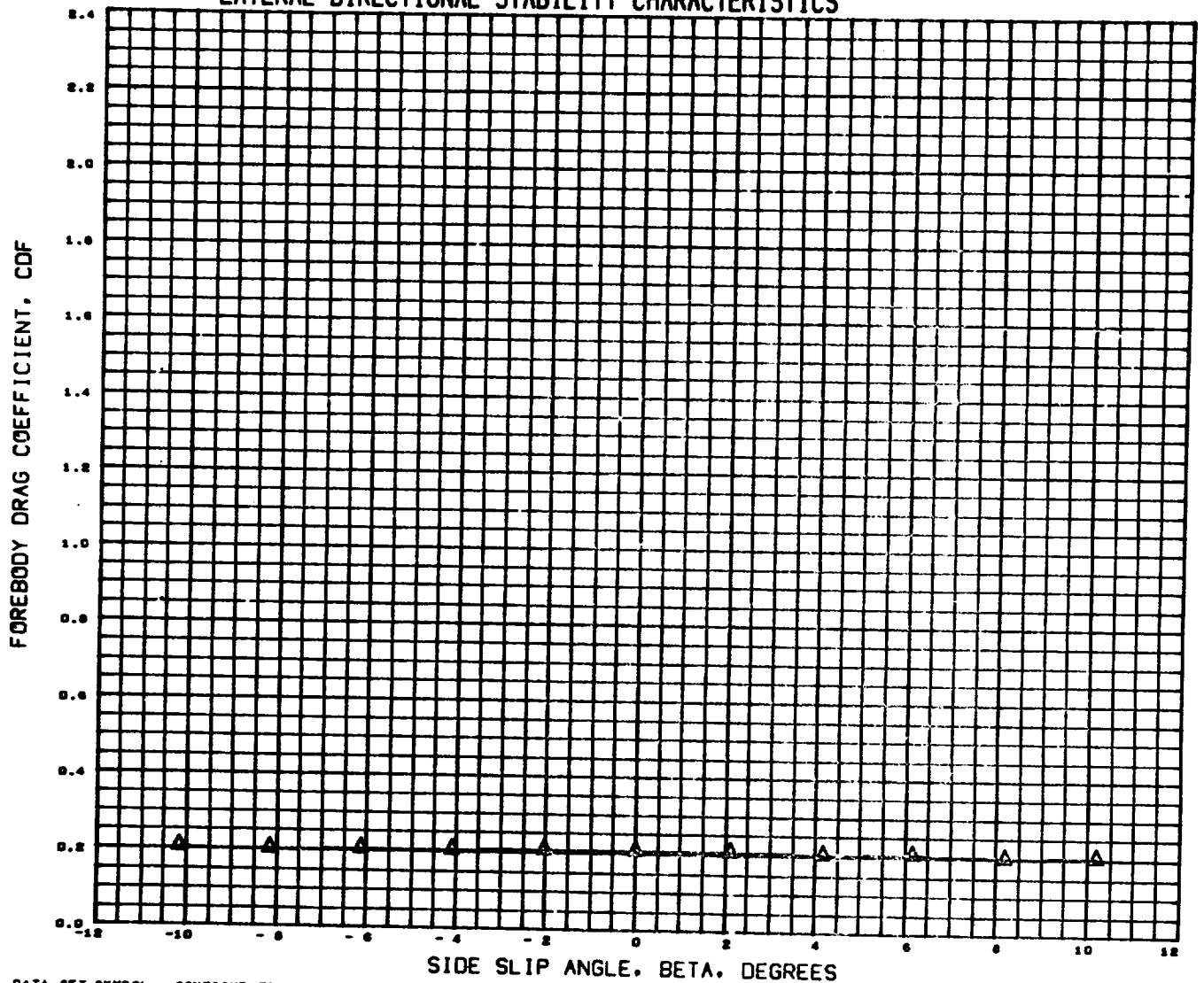


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 50. IN.
(E3410G)	M492-HSFC AR11961-1 MODEL B2W5C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.797

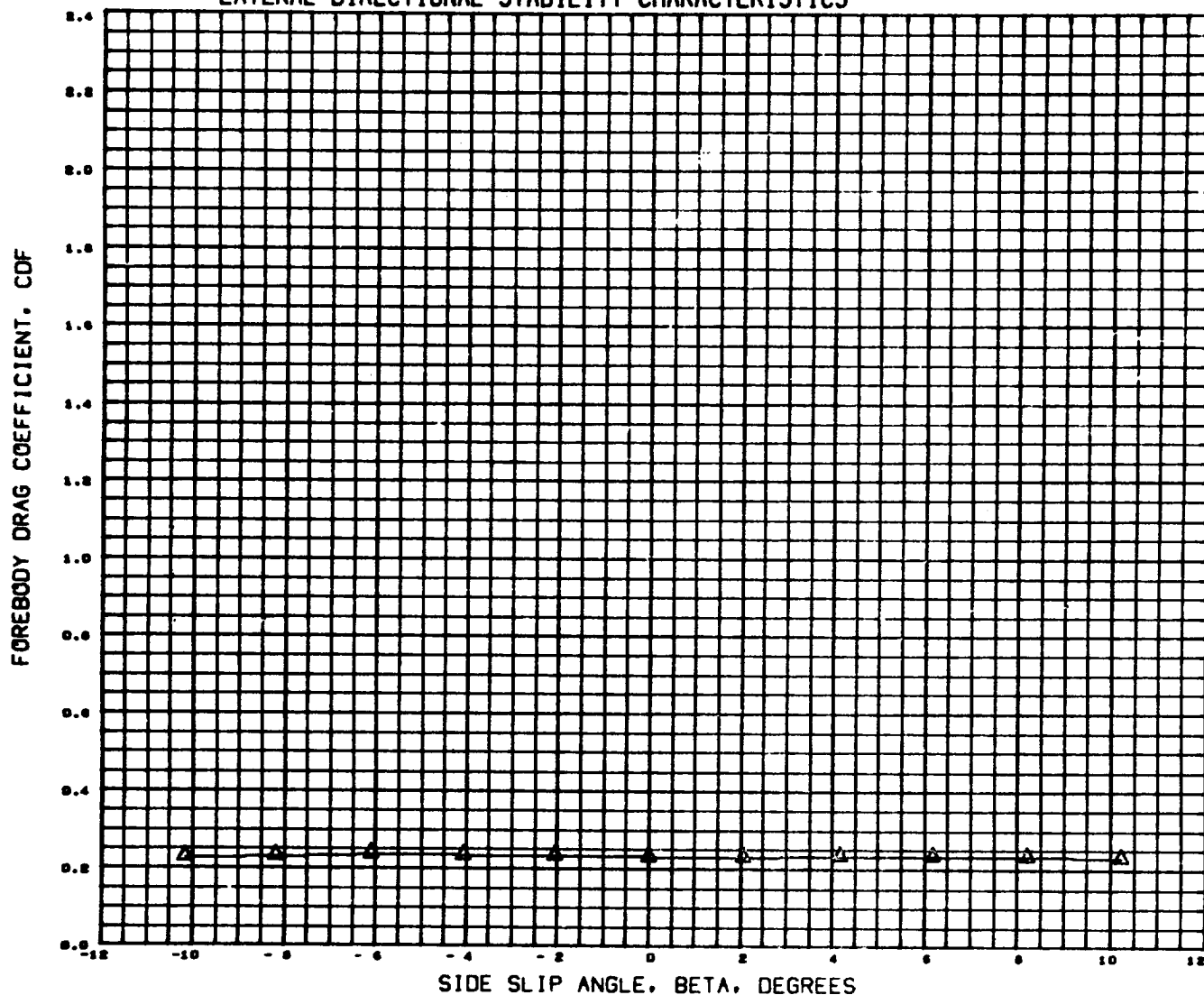
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 98. IN.
(E3410G)	M482-HSFC AR11981-1 MODEL SEMSC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SRF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	3.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.899

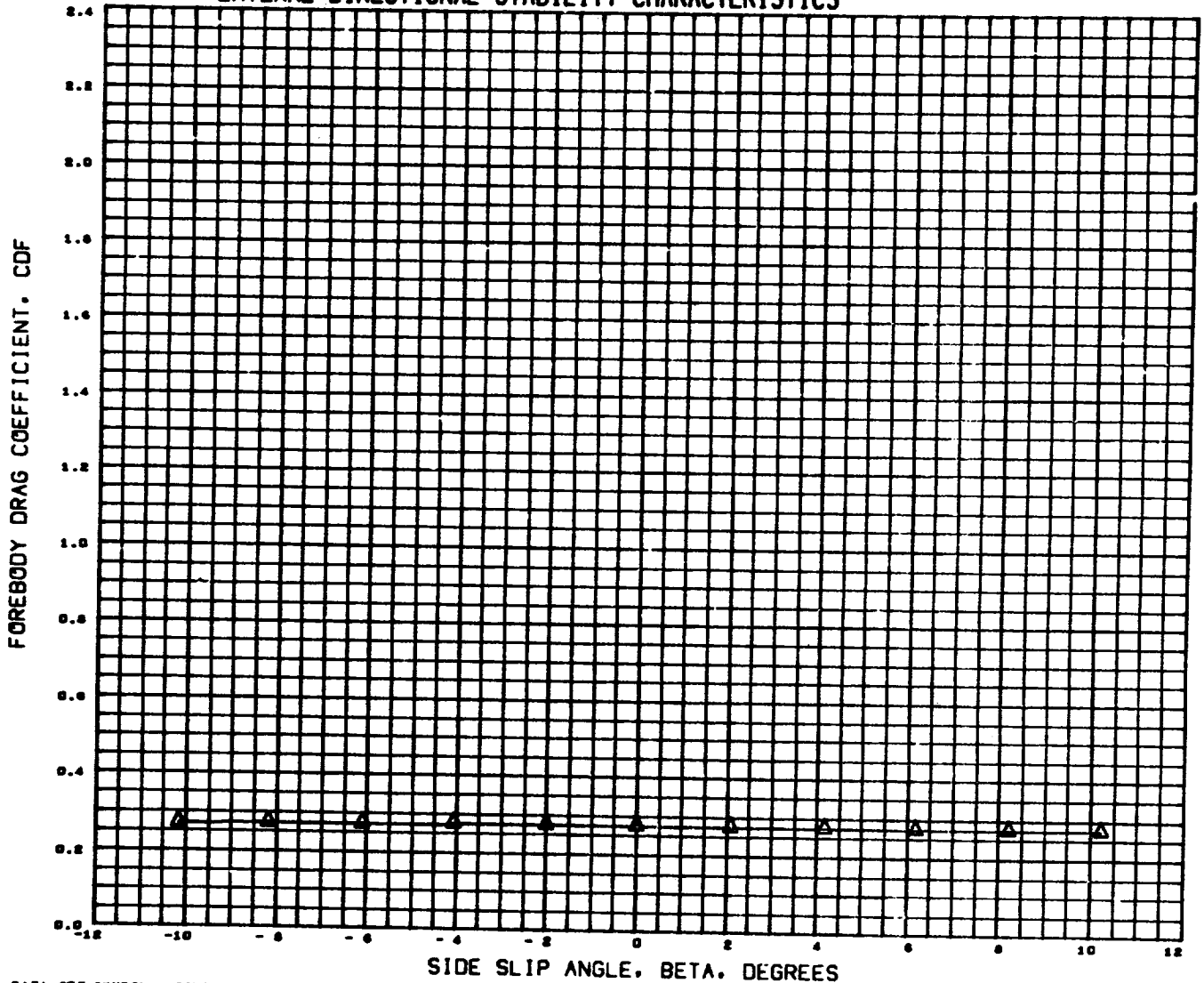
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 30.IN.
(E9410G)	M492-WBFC AR1981-1 MODEL 82WBC12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E9410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E9410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E9410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.949

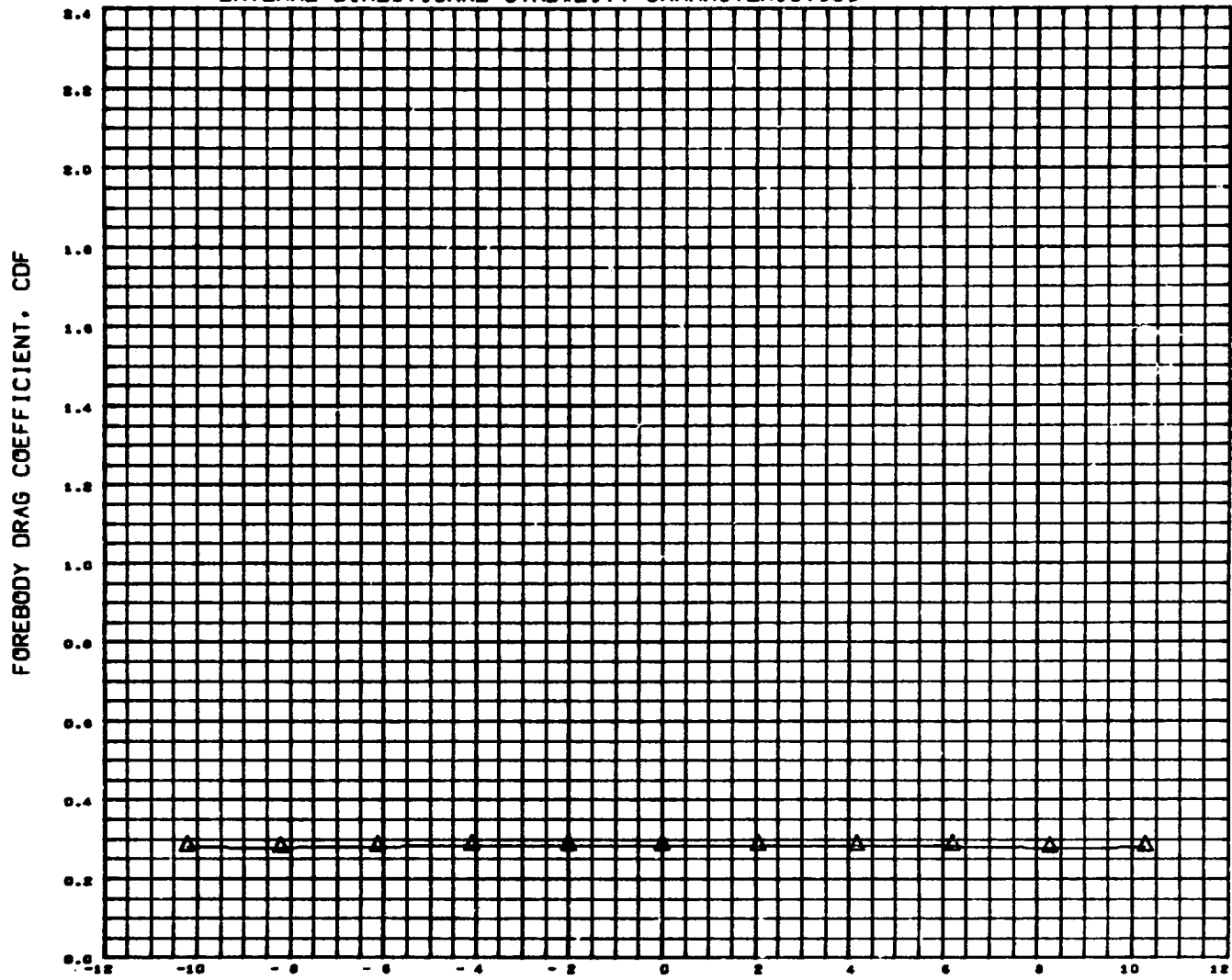
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF	4.6225 98.IN.
(E3410G)	N492-NSFC ARISS-1 MODEL SZWGC12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

MACH 0.998

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

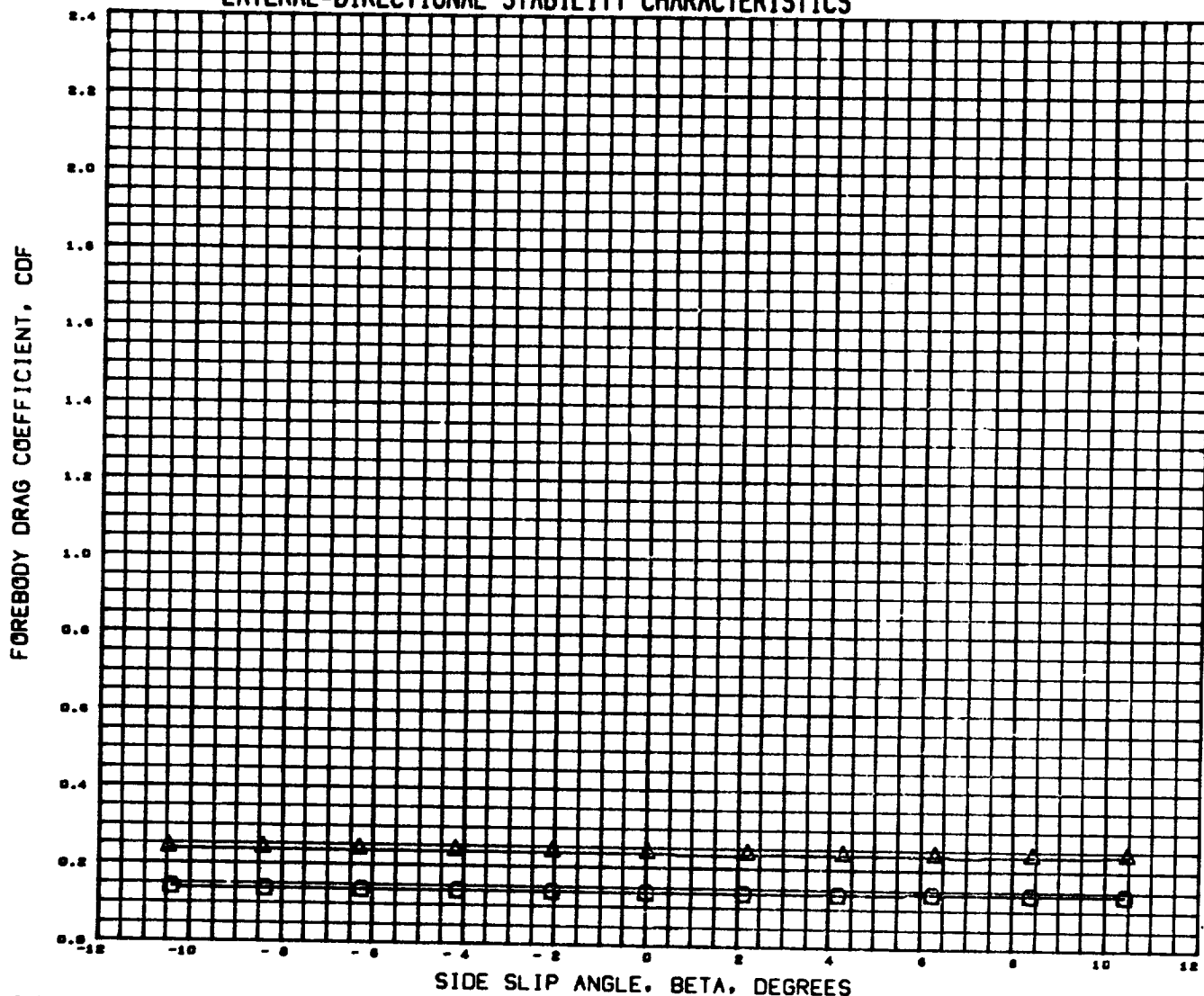


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30-IN.
(E3410G)	M492-MSFC AR11981-1 MODEL 82M6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	SREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.186

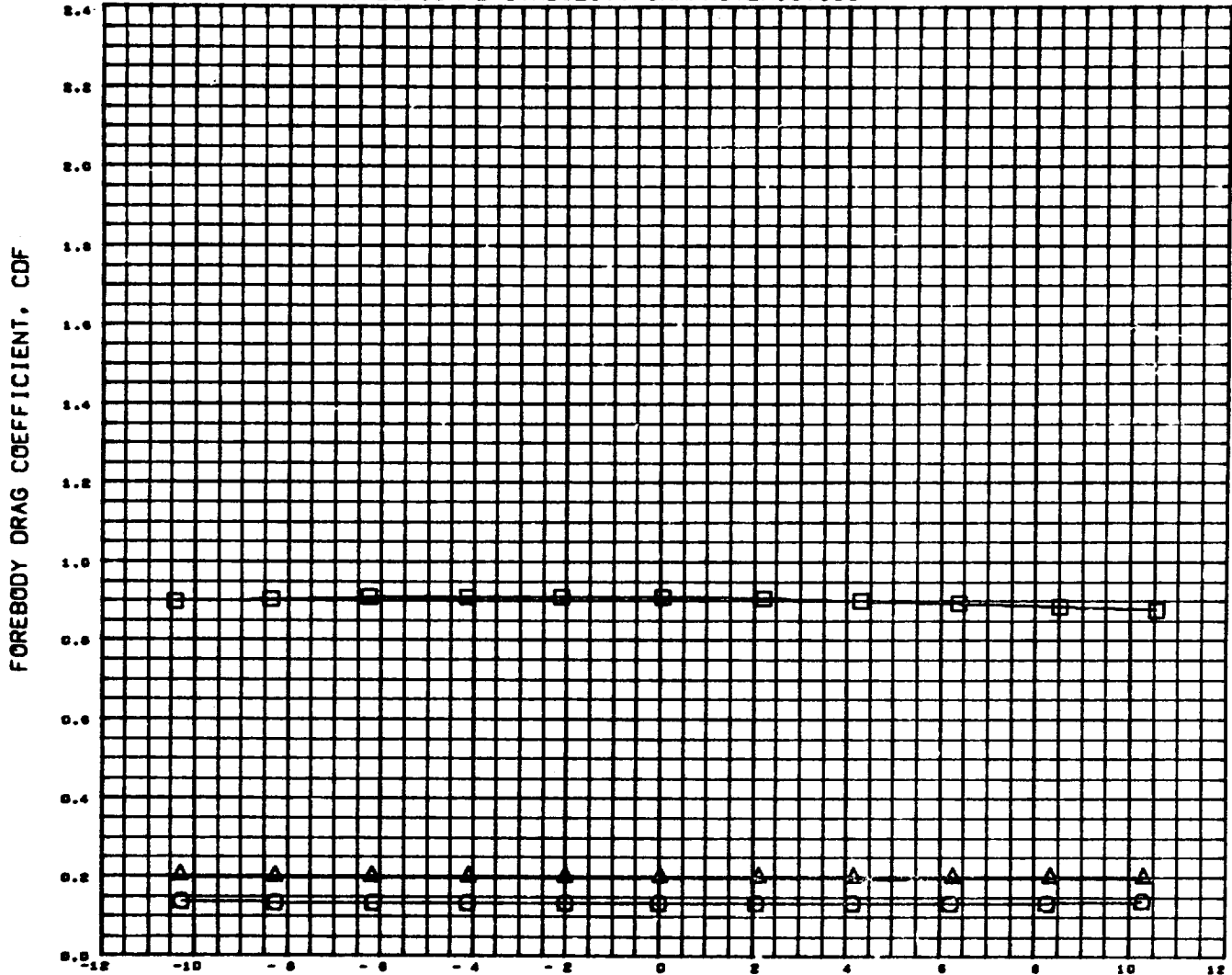
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	N492-HSFC AR11981-1 MODEL B2WMC12V1	0.000	0.000	0.000	0.000	SREF 4.6225 38. IN.
(E3410G)	N492-HSFC AR11981-1 MODEL B2WMC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 1.050

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

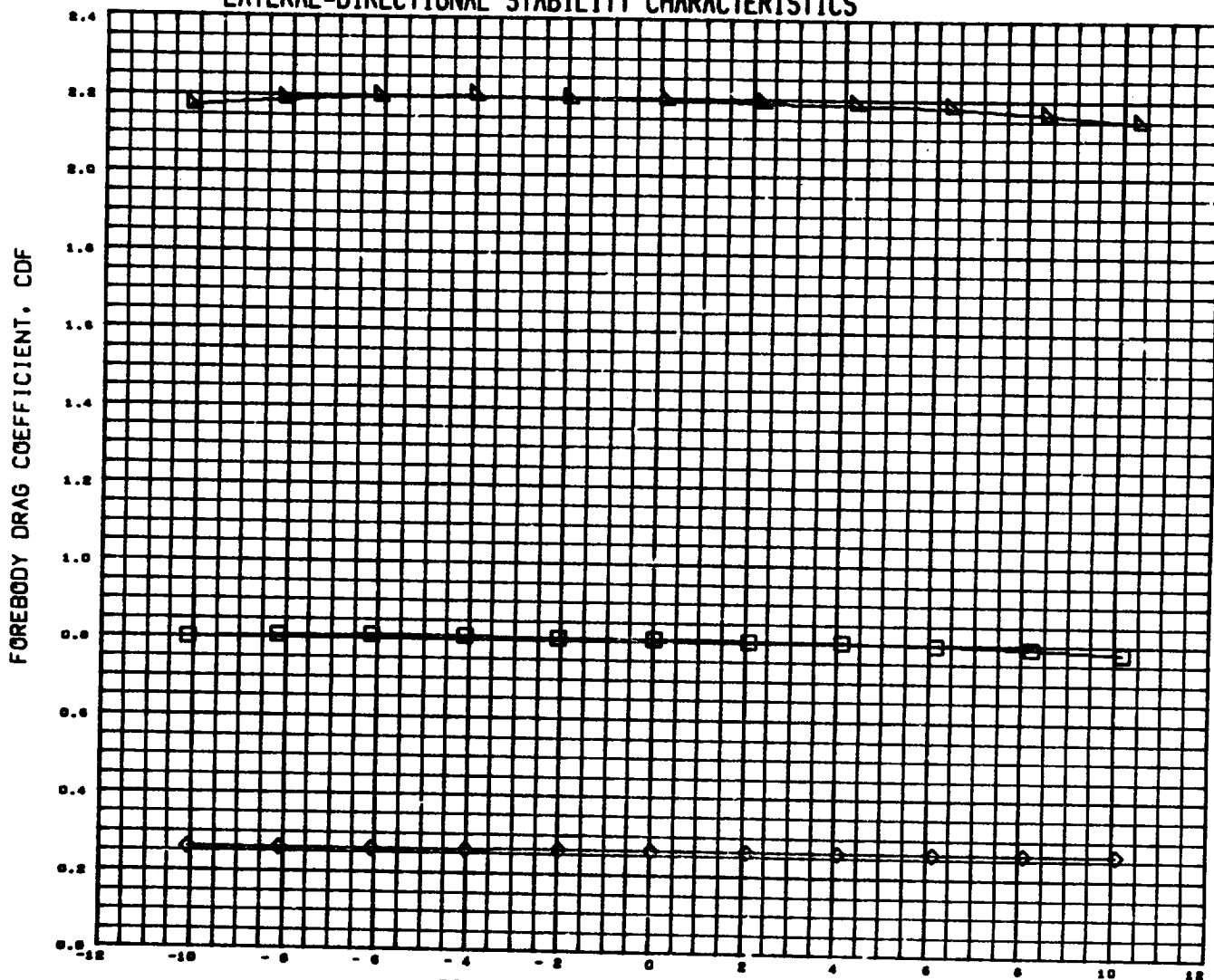


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR11981-1 MODEL 82W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 IN.
(E3410G)	M492-NSFC AR11981-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	M492-NSFC AR11981-1 MODEL 82W6C12V1	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.800	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 3.480

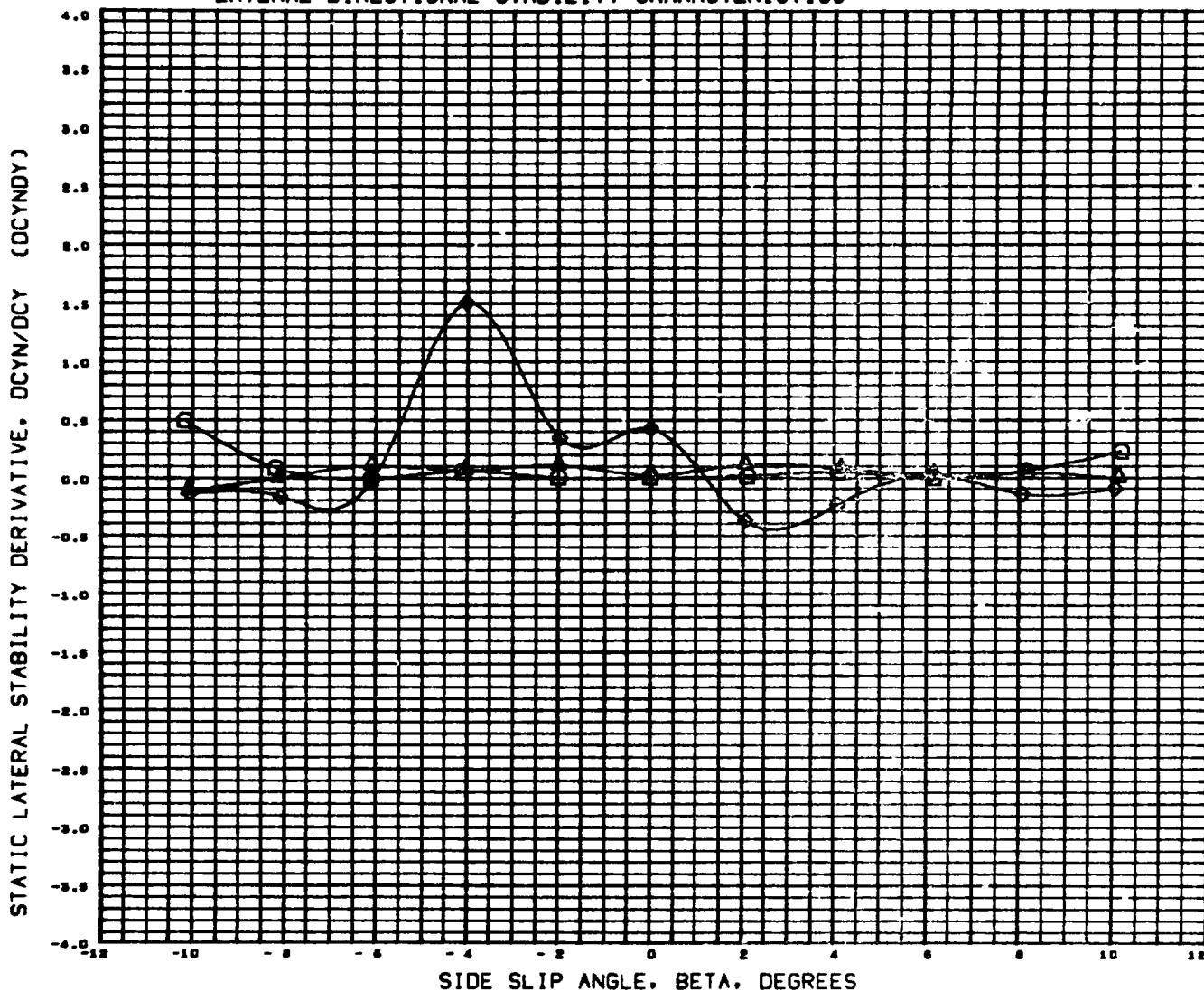
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410P)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 sq.in.
(E3410B)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(E3410M)	M492-NSFC AR11981-1 MODEL 82W6C12V1	15.500	0.000	0.000	0.000	SREF 4.3000 in.
(E3410I)	M492-NSFC AR11981-1 MODEL 82W6C12V1	31.000	0.000	0.000	0.000	XMRP 2.4000 in.
(E3410J)	M492-NSFC AR11981-1 MODEL 82W6C12V1	51.000	0.000	0.000	0.000	YMRP 0.0000 in.
						ZMRP 0.0000 in.
						SCALE 0.0025

MACH 4.989

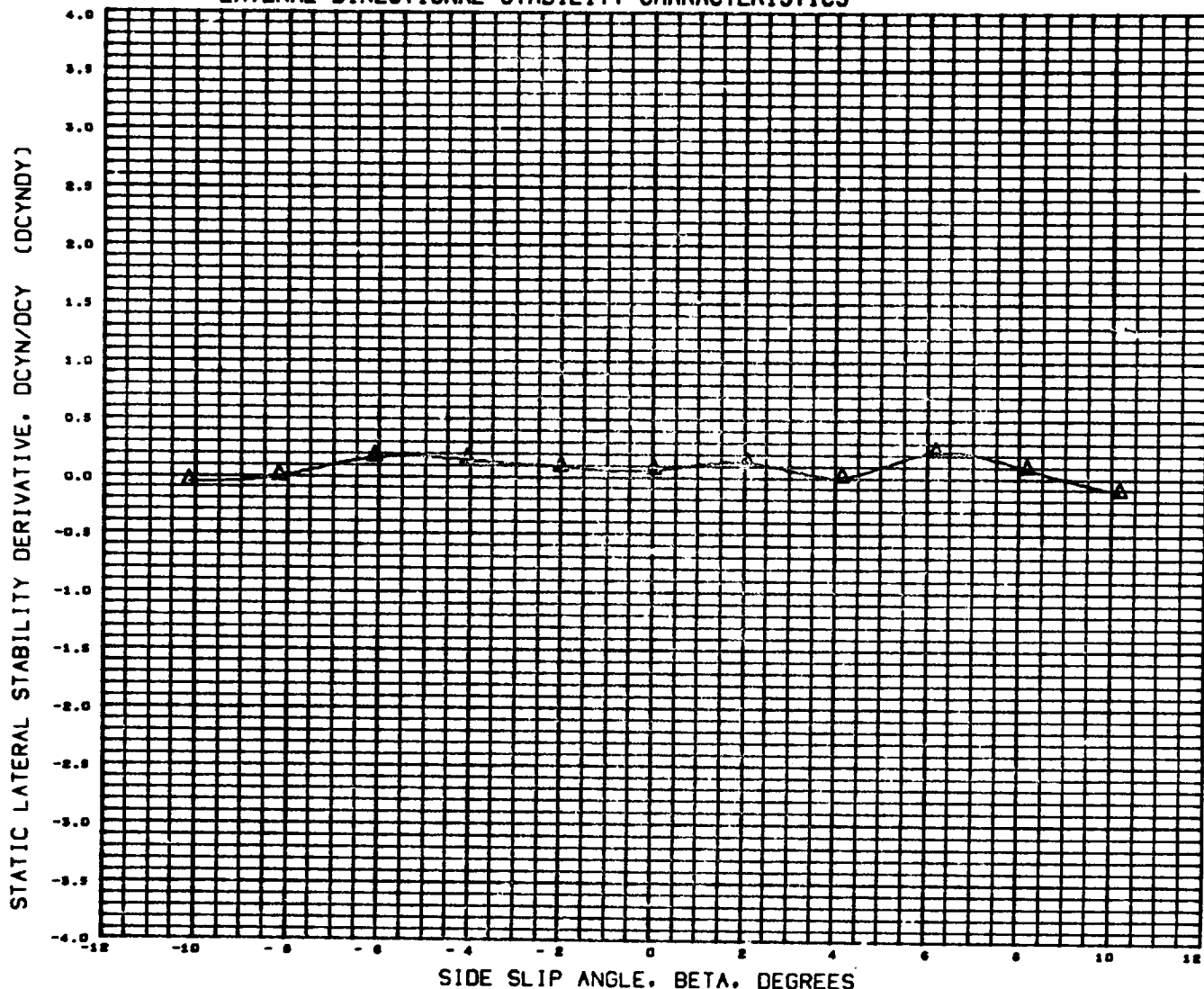
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E9410F)	N492-HBFC AR11981-1 MODEL B2W6C12V1	0.000	0.000	0.000	0.000	SREF 4.6225 30.1N
(E9410G)	N492-HBFC AR11981-1 MODEL B2W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E9410H)	N492-HBFC AR11981-1 MODEL B2W6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E9410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 IN.
(E9410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.801

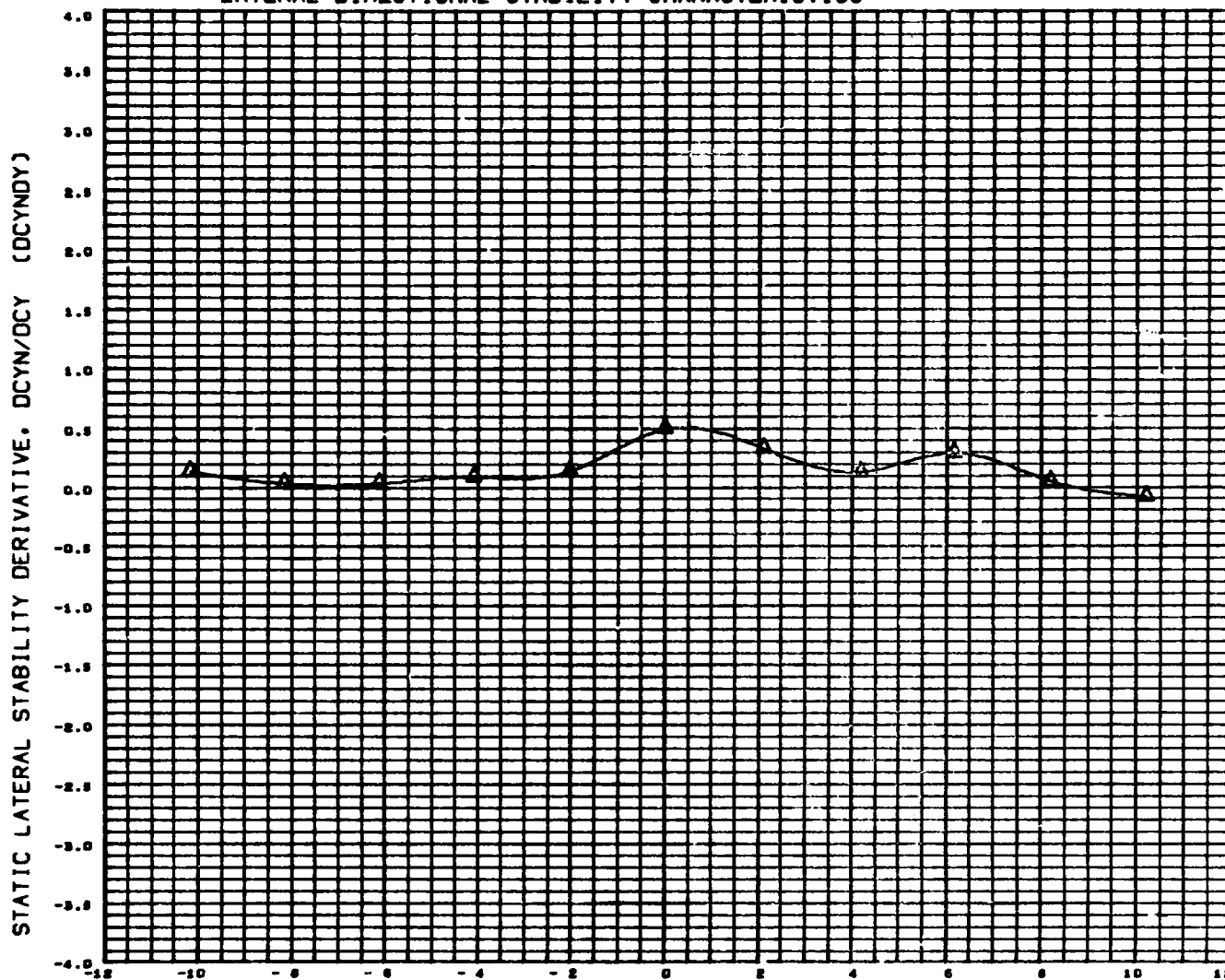
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	M492-NSFC AR12901-1 MODEL BZWGC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	7.000	0.000	XMRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 IN.
						ZMRP 0.0000 IN.
						SCALE 0.0025

MACH 0.797

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

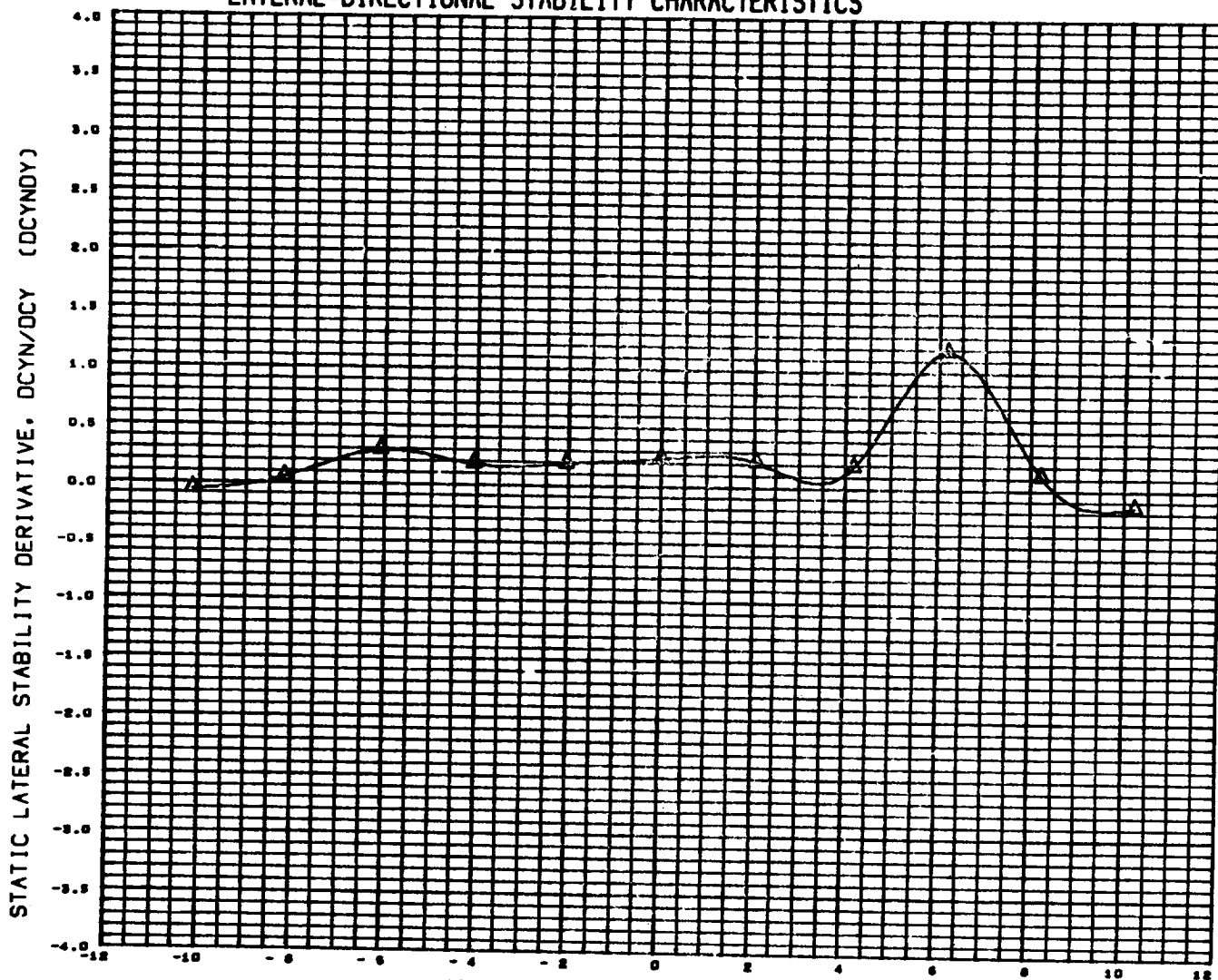


SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 30.IN.
(E3410G)	M492-MSFC AR11901-1 MODEL 82M6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	21.000	0.000	0.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.899

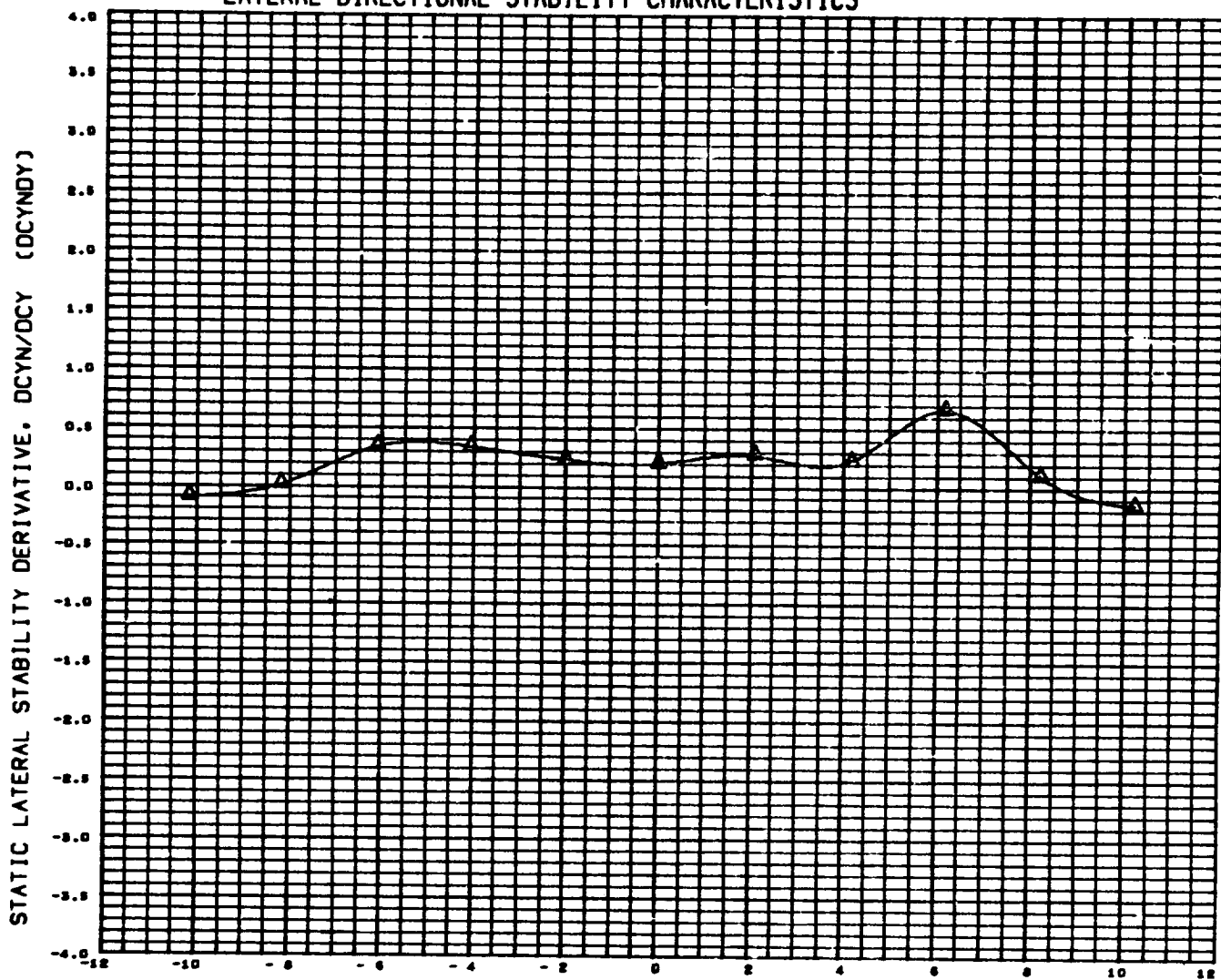
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 36. IN.
(E3410G)	N492-NBFC ARI981-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	1.000	0.000	XHRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP 0.0000 IN.
						ZHRP 0.0000 IN.
						SCALE 0.0025

MACH 0.948

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



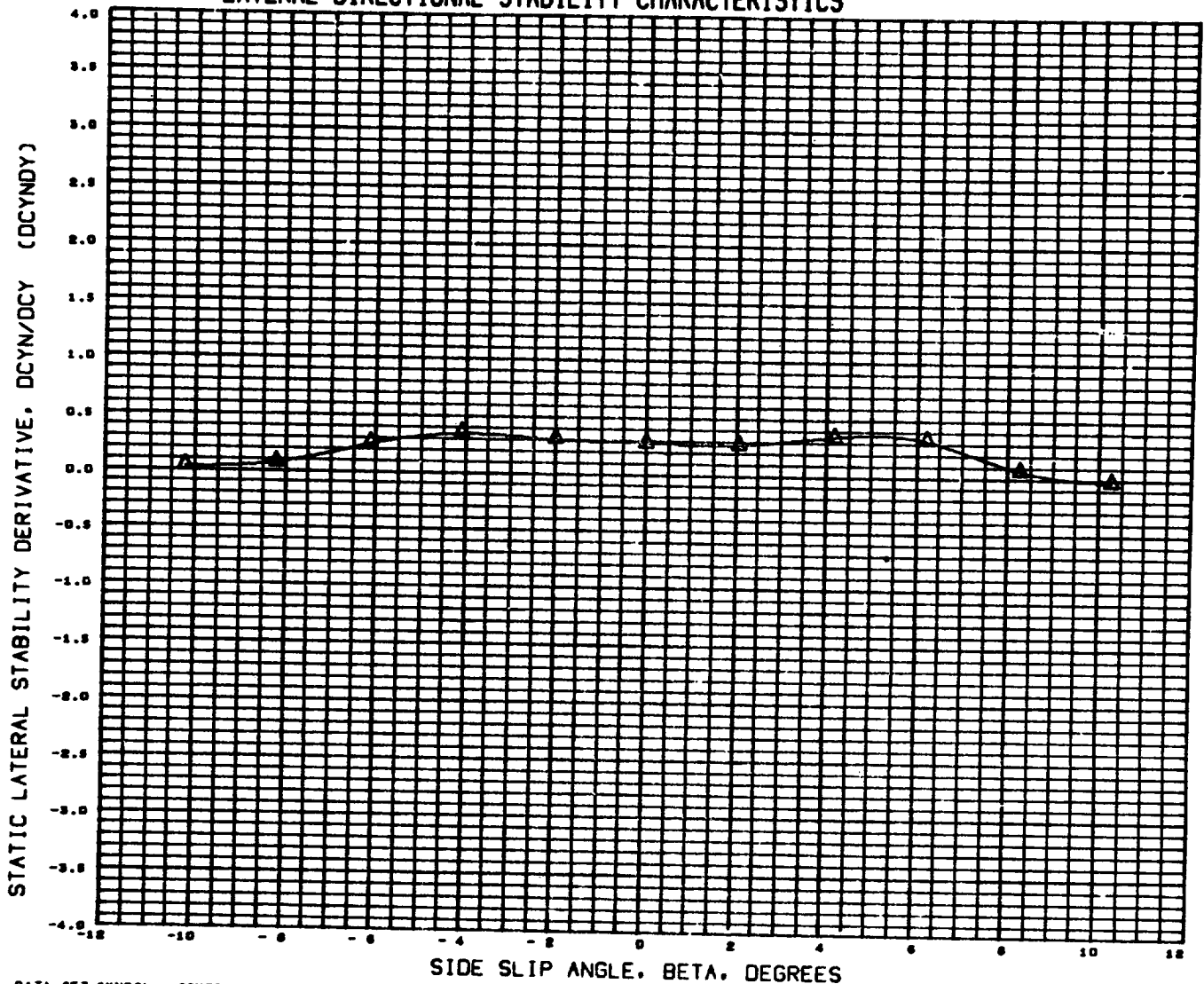
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3410F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410G) M492-MSFC AR11991-1 MODEL 82W6C1EV1
 (E3410H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410I) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410J) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
0.000	0.000	0.000	0.000	SREF 4.6225 88.IN.
10.500	0.000	0.000	0.000	LREF 4.3000 IN.
15.500	0.000	0.000	0.000	BREF 4.3000 IN.
31.000	0.000	3.000	0.000	XNRP 2.4000 IN.
51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
				ZNRP 0.0000 IN.
				SCALE 0.0025

MACH 0.998

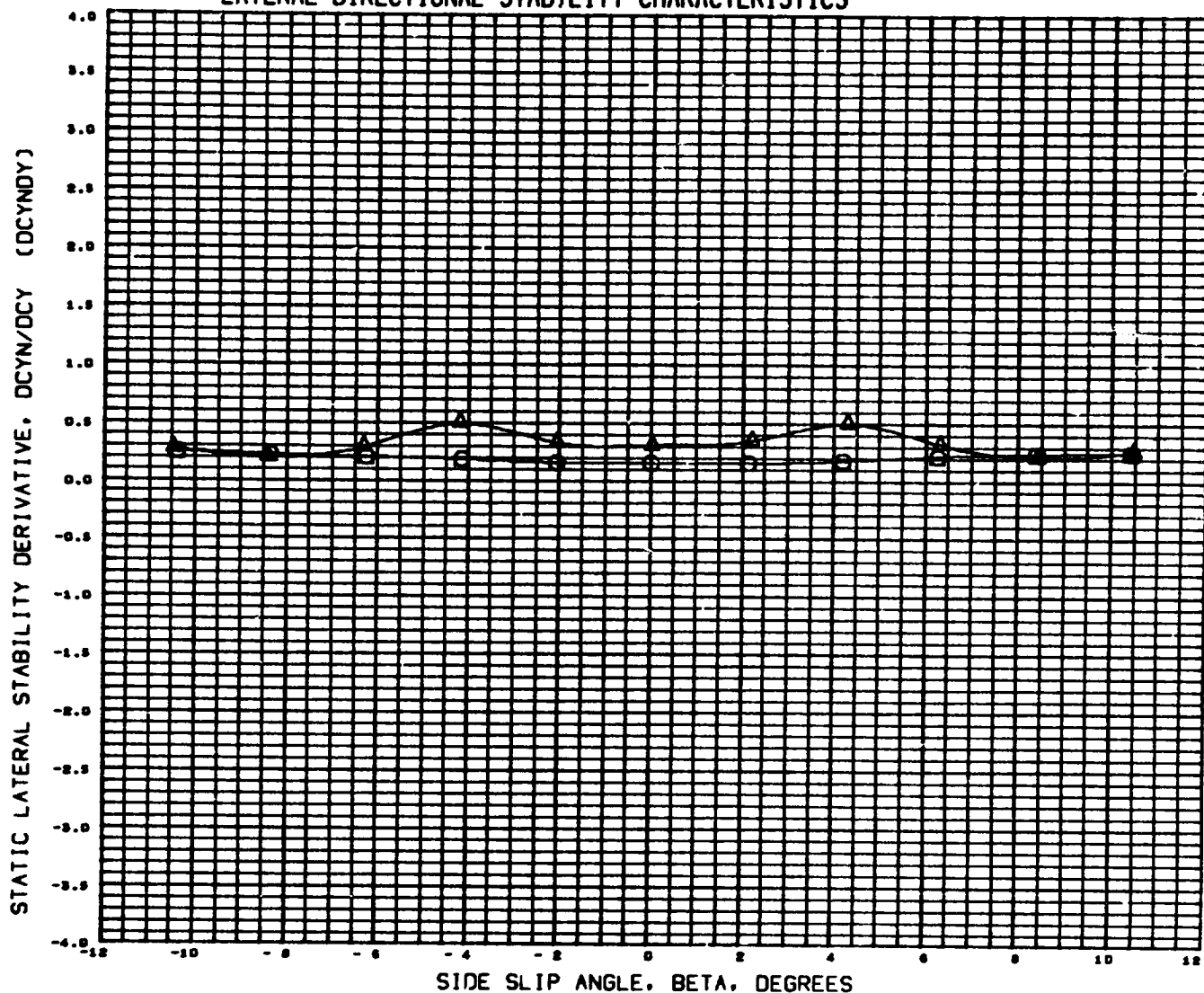
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	3REF	4.6225 80. IN.
(E3410G)	M482-MSFC AR11981-1 MODEL 82W6C12V1	10.500	0.000	0.000	0.000	LREF	4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF	4.3000 IN.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XHRP	2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YHRP	0.0000 IN.
						ZHRP	0.0000 IN.
						SCALE	0.0025

MACH 1.196

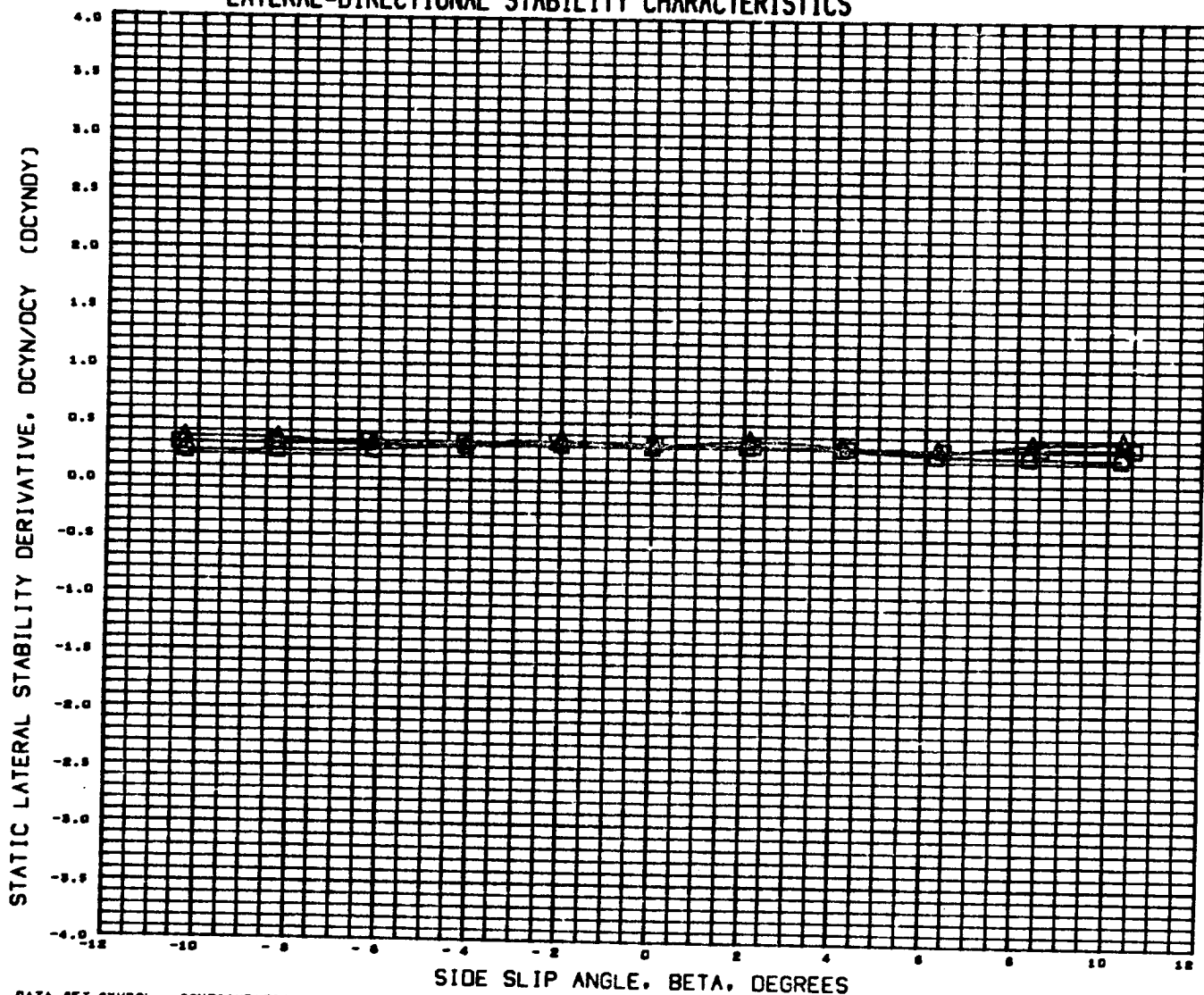
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-MSFC AR11901-1 MODEL BEMC12V1	0.000	0.000	0.000	0.000	SREF 4.6225 86.1N.
(E3410G)	M492-MSFC AR11901-1 MODEL BEMC12V1	10.500	0.000	0.000	0.000	LREF 4.3000 1N.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 1N.
(E3410I)	DATA NOT AVAILABLE FOR ALL CONDITIONS	31.000	0.000	0.000	0.000	XMRP 2.4000 1N.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YMRP 0.0000 1N.
						ZMRP 0.0000 1N.
						SCALE 0.0025

MACH 1.050

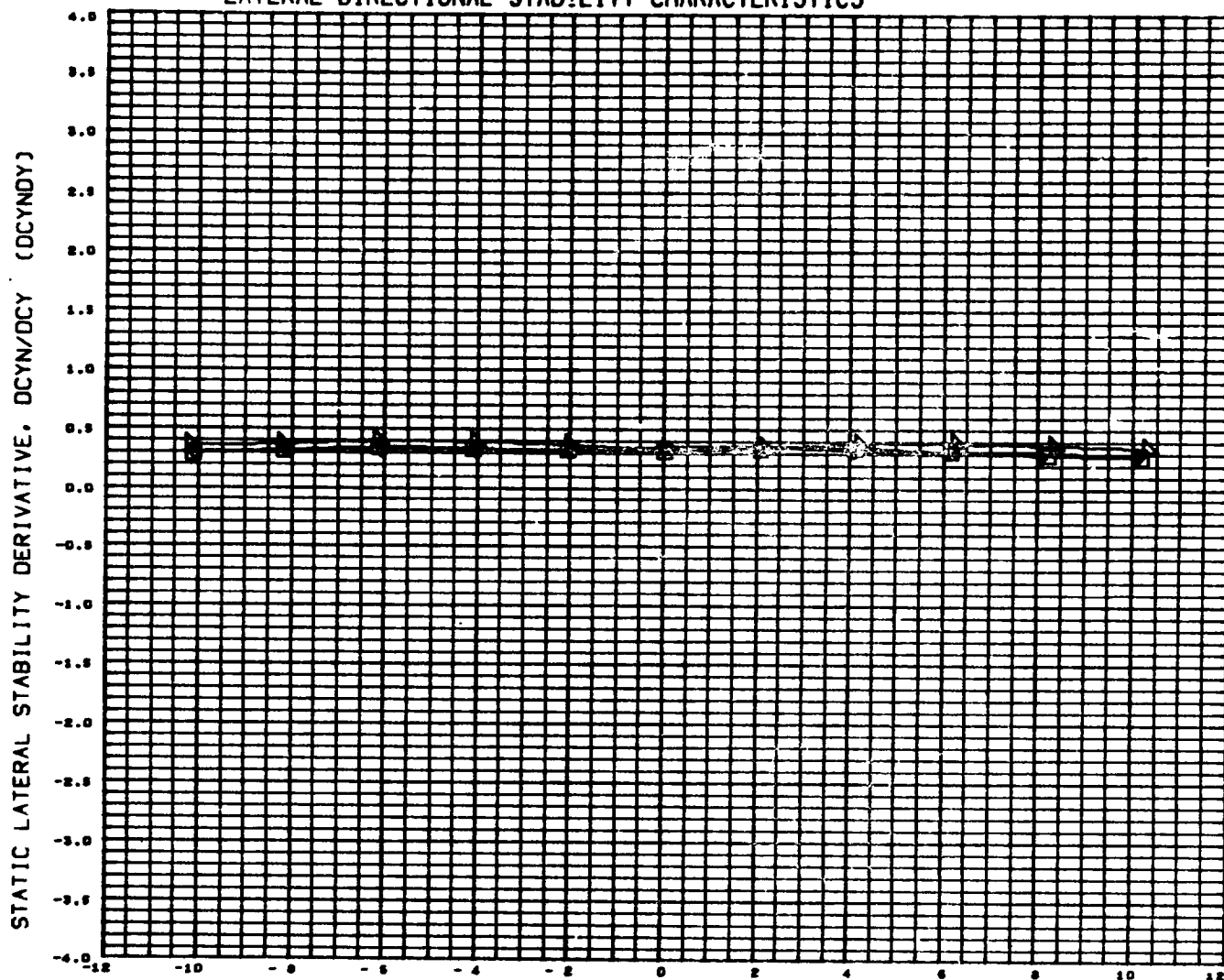
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	M492-NSFC AR11981-1 MODEL BZW6C12V1	0.000	0.000	0.000	0.000	BREF 4.6225 80.IN.
(E3410G)	M492-NSFC AR11981-1 MODEL BZW6C12V1	10.500	0.000	0.000	0.000	LREF 4.3000 IN.
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	0.000	BREF 4.3000 IN.
(E3410I)	M492-NSFC AR11981-1 MODEL BZW6C12V1	31.000	0.000	0.000	0.000	XNRP 2.4000 IN.
(E3410J)	DATA NOT AVAILABLE FOR ALL CONDITIONS	51.000	0.000	0.000	0.000	YNRP 0.0000 IN.
						ZNRP 0.0000 IN.
						SCALE 0.0025

MACH 3.400

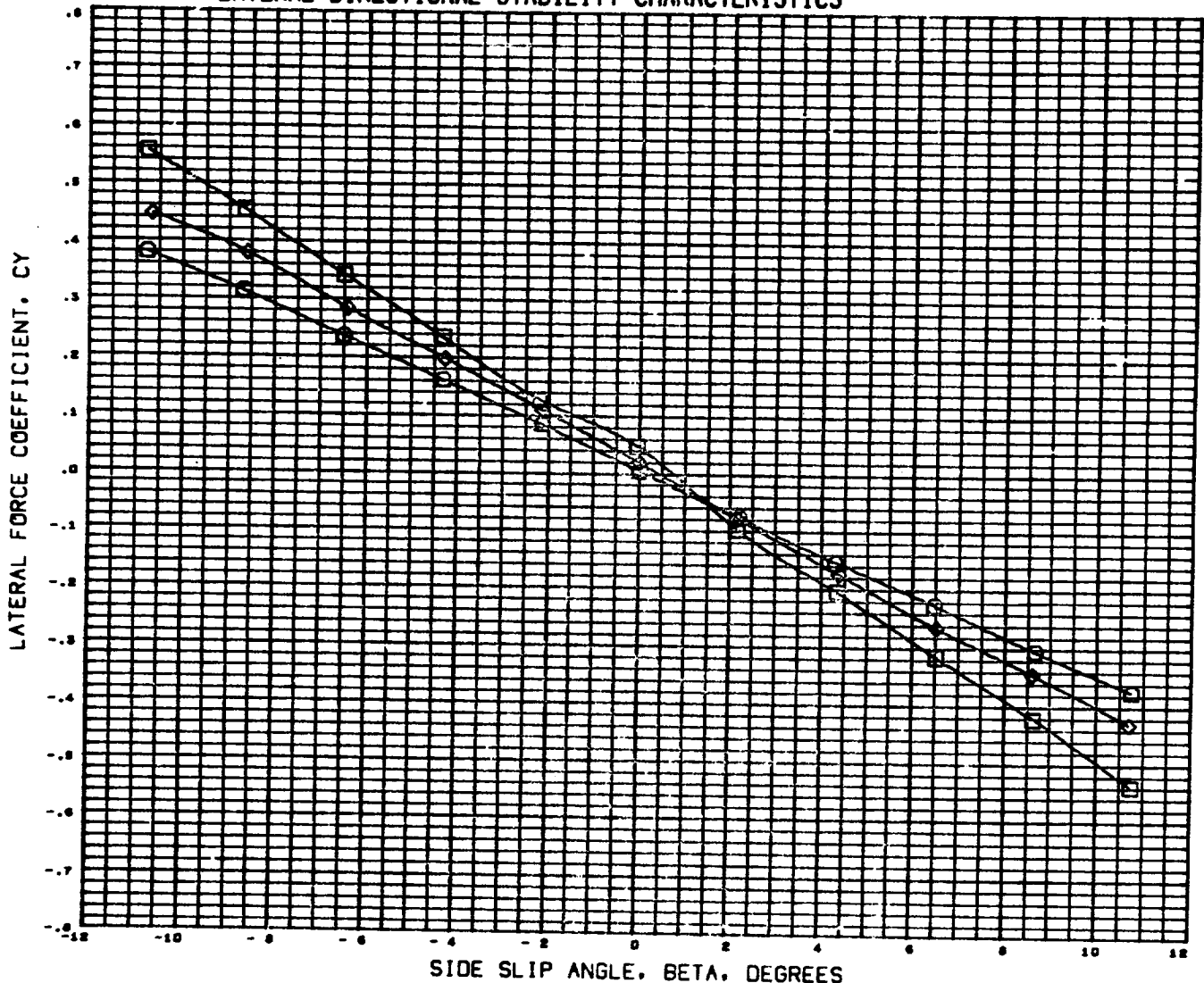
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	CANARD	ELEVTR	AILRON	REFERENCE INFORMATION
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	0.000	SREF 4.6225 sq. in.
(E3410G)	DATA NOT AVAILABLE FOR ALL CONDITIONS	10.500	0.000	0.000	0.000	LREF 4.3000 in.
(E3410H)	M49Z-MSFC AR11981-1 MODEL BZW6C12V1	15.500	0.000	0.000	0.000	BREF 4.3000 in.
(E3410I)	M49Z-MSFC AR11981-1 MODEL BZW6C12V1	31.000	0.000	0.000	0.000	YMRP 2.4000 in.
(E3410J)	M49Z-MSFC AR11981-1 MODEL BZW6C12V1	51.000	0.000	0.000	0.000	ZMRP 0.0000 in.
						SCALE 0.0025

NACH 4.959

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3410F)	0000	N492-NSFC- AR11991-1	MODEL	B2W6011
(E3410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E3410F)		N492-NSFC AR11991-1	MODEL	B2W6V2011
(E3410F)		N492-NSFC AR11991-1	MODEL	B2W6V2011
(E3410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS		

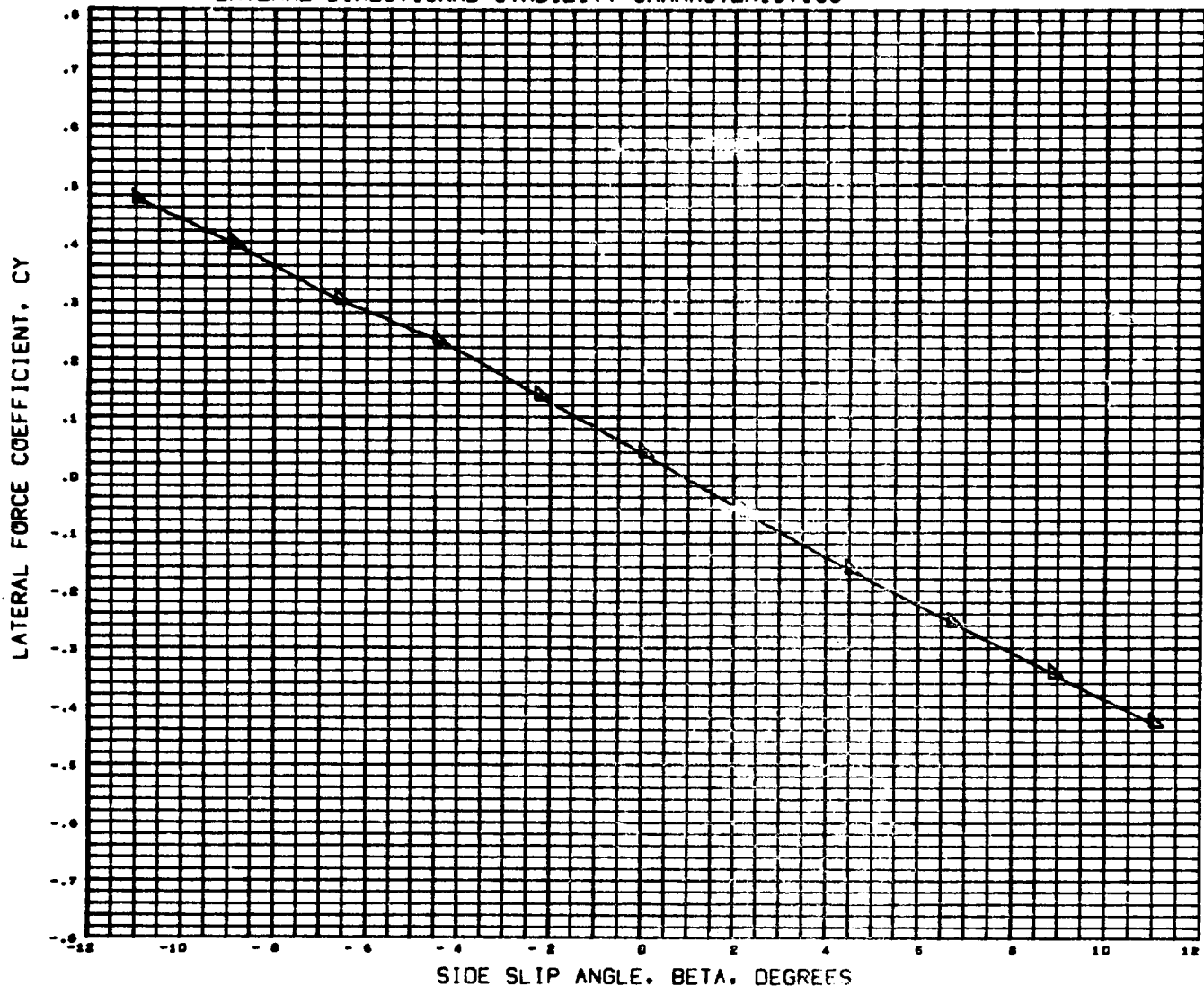
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	sq. in.
LREF	4.3000	in.
BREF	4.3000	in.
XMRP	2.4000	in.
YMRP	0.0000	in.
ZMRP	0.0000	in.
SCALE	0.0025	

MACH 0.597

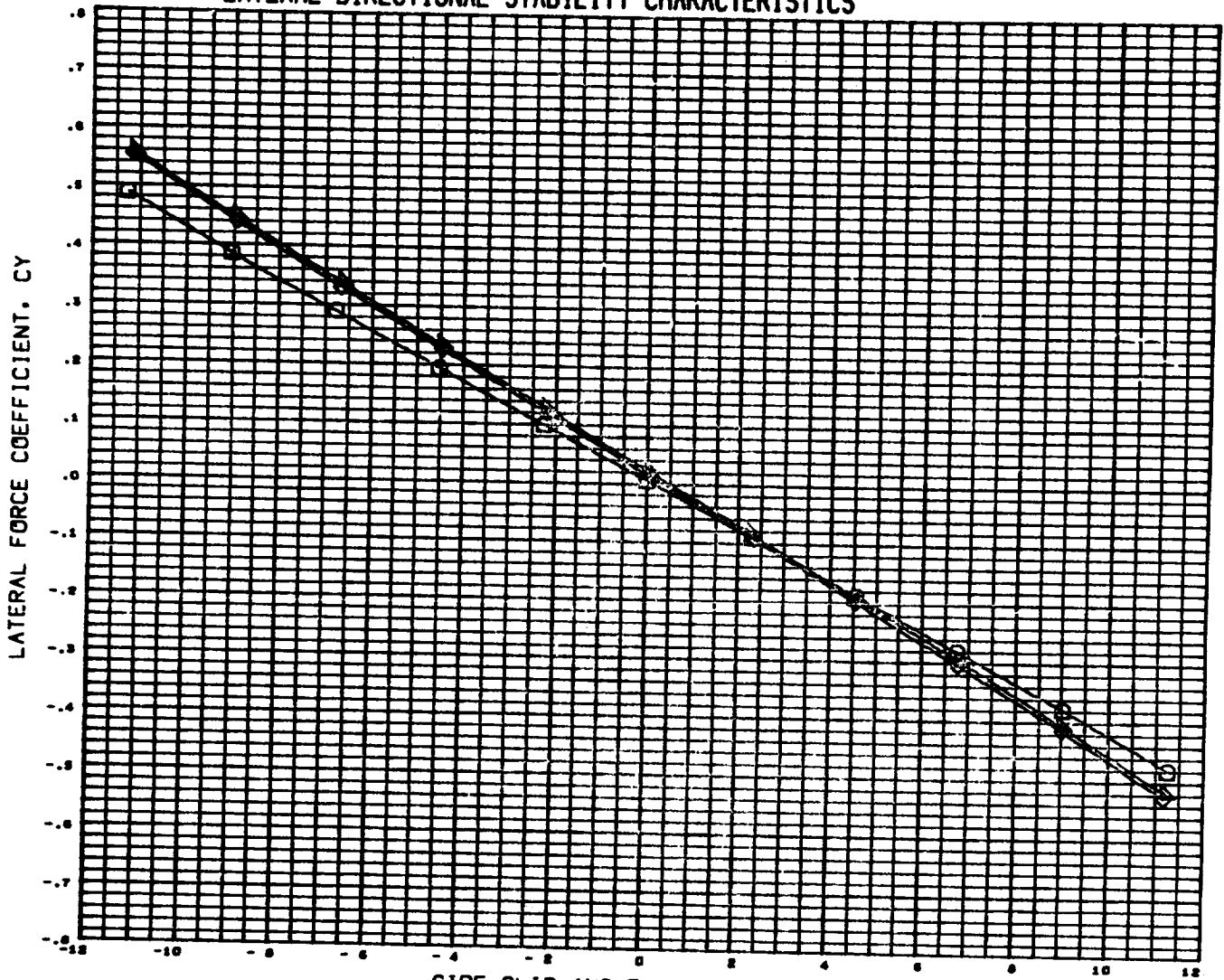
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRCN	REFERENCE INFORMATION
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	SREF 4.6225 SQ. IN.
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	LREF 4.3000 IN.
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	BREF 4.3000 IN.
(E9410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	YNRP 2.4000 IN.
(E9410F)	M492-HSFC AR11981-1 MODEL B2W6V2011	0.000	0.000	10.000	YNRP 0.0000 IN.
					ZMRP 0.0000 IN.
					SCALE 0.0025

MACH 0.799

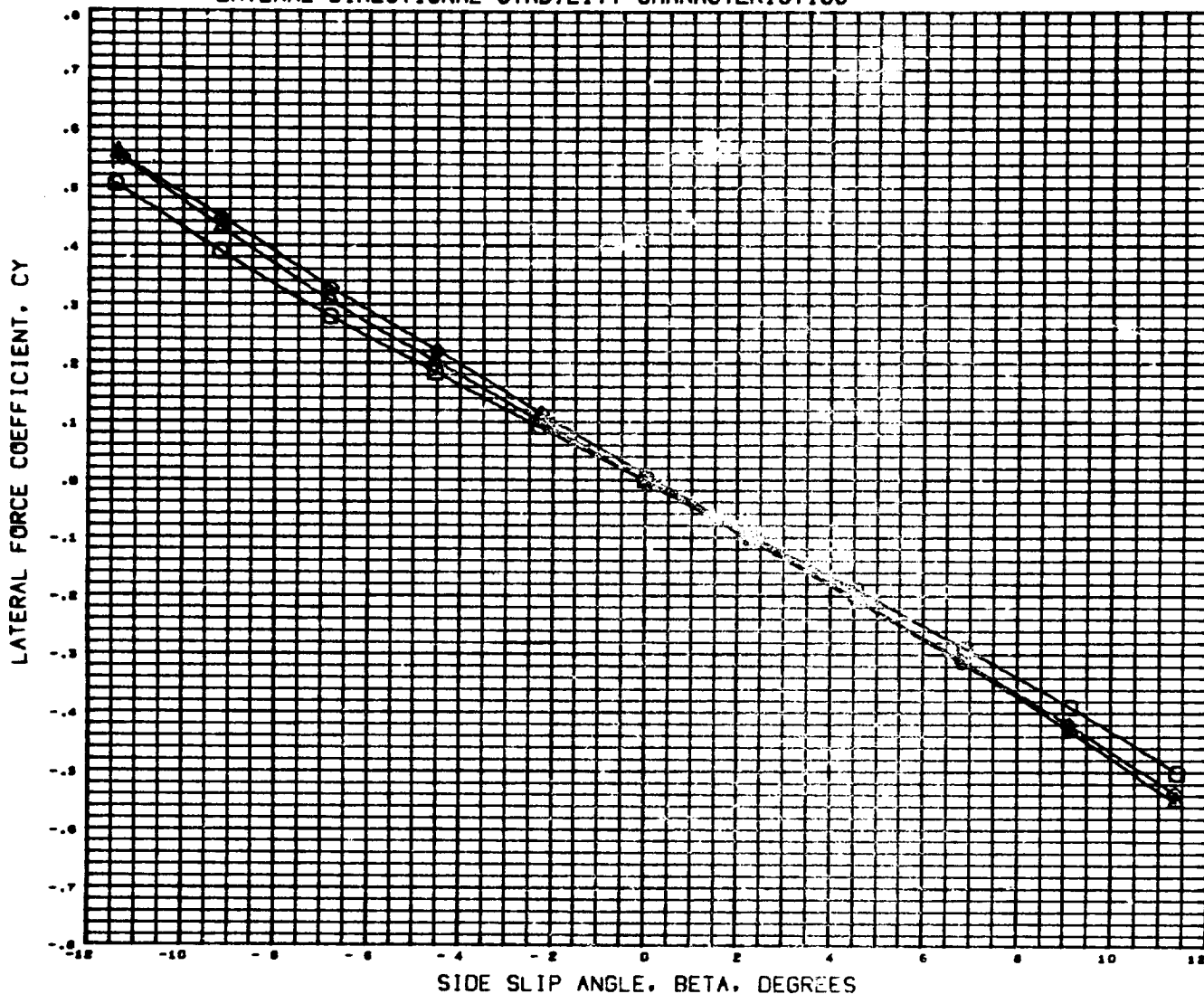
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	REFERENCE INFORMATION
(E3419F)	N492-HSFC- AR11981-1 MODEL 82W6011	0.000	0.000	0.000	SREF 4.6223 36 IN.
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	LREF 4.3000 IN.
(E3419F)	N492-HSFC AR11981-1 MODEL 82W6V2011	0.000	0.000	0.000	SREF 4.3000 IN.
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	XNRP 2.4000 IN.
(E3419F)	N492-HSFC AR11981-1 MODEL 82W6V2011	0.000	0.000	10.000	YNRP 0.0000 IN.
					ZNRP 0.0000 IN.
					SCALE 0.0025

MACH 1.194

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3419F) H492-MSFC- AR11981-1 MODEL B2W6011

(E3418F) H492-MSFC AR11981-1 MODEL B2W6V1011

(E3415F) H492-MSFC AR11981-1 MODEL B2W6V2011

(E3419H) DATA NOT AVAILABLE FOR ALL CONDITIONS

(E3416F) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA ELEVTR AILRON

0.000 0.000 0.000

0.000 0.000 0.000

0.000 0.000 0.000

15.500 0.000 3.000

0.000 0.000 10.000

REFERENCE INFORMATION

SREF 4.6225 80. IN.

LREF 4.3000 IN.

BREF 4.3000 IN.

XMRP 2.4000 IN.

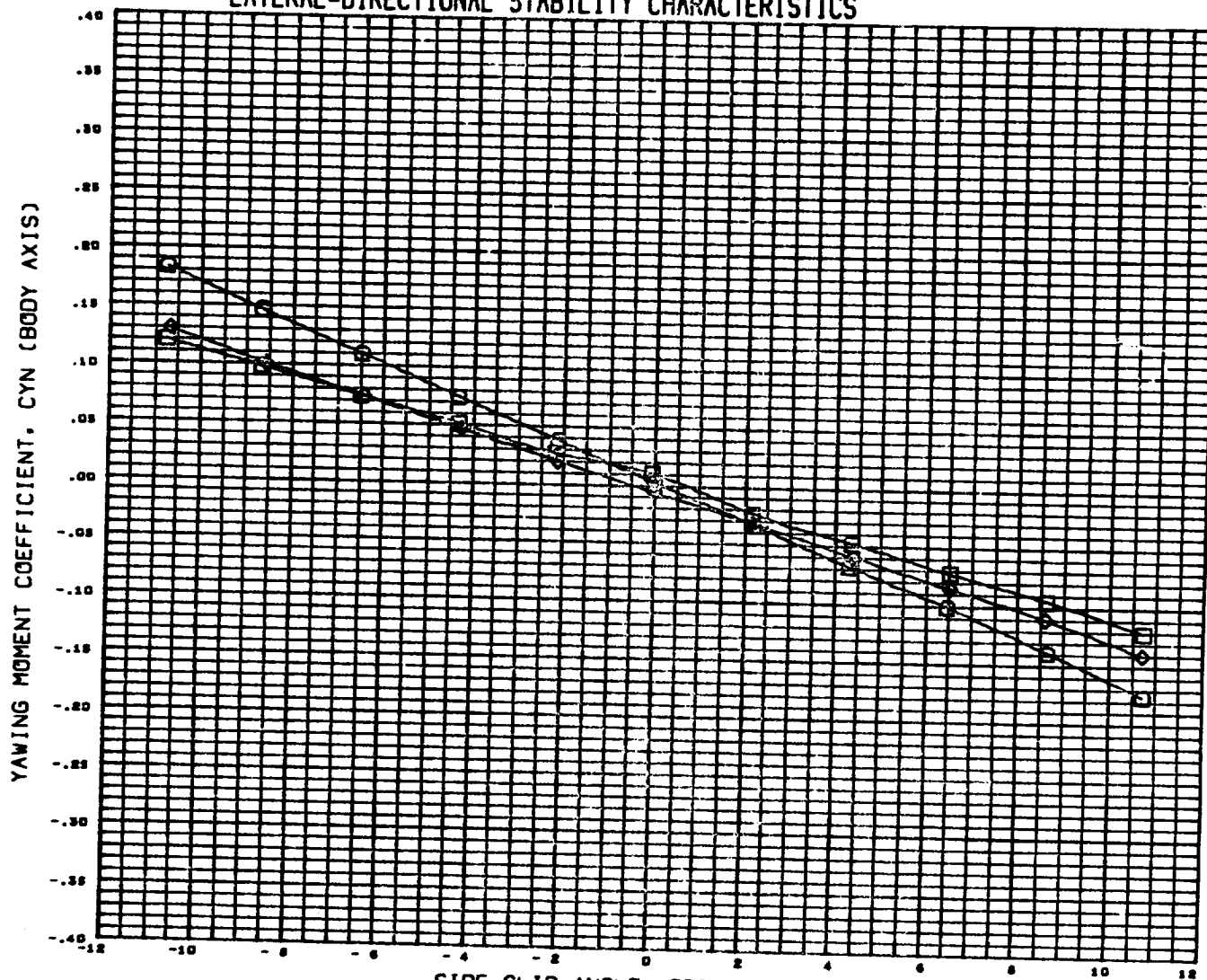
YMRP 0.0000 IN.

ZMRP 0.0000 IN.

SCALE 0.0025

MACH 1.984

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

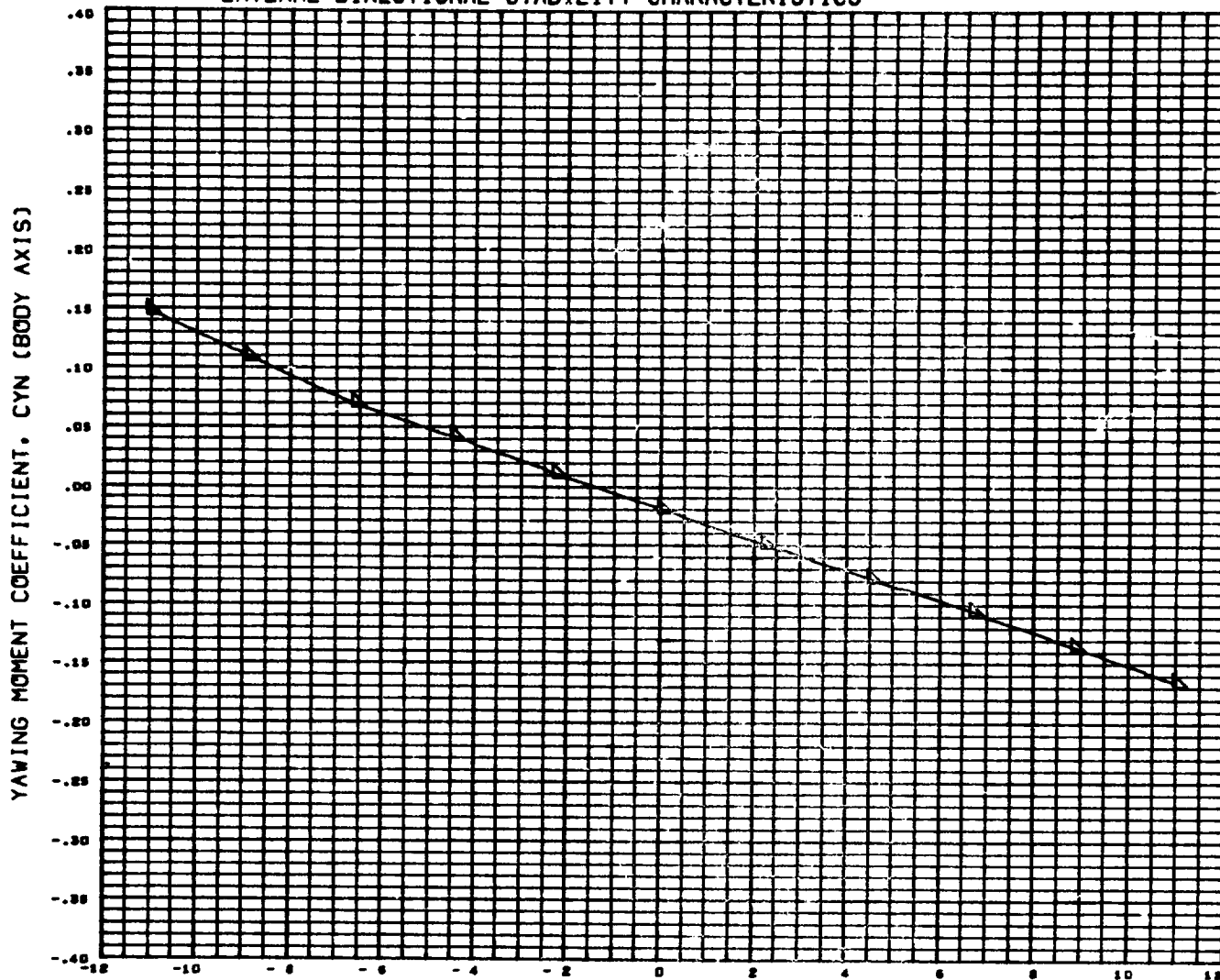


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON
(E3418F)	M492-MBFC- AR11981-1 MODEL B2WS011	0.000	0.000	0.000
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000
(E3418F)	M492-MBFC AR11981-1 MODEL B2WSV2011	0.000	0.000	0.000
(E3418H)	M492-MBFC AR11981-1 MODEL B2WSV2011	15.500	0.000	0.000
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	10.000

MACH 0.997

REFERENCE INFORMATION	
SREF	4.6225 30.IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



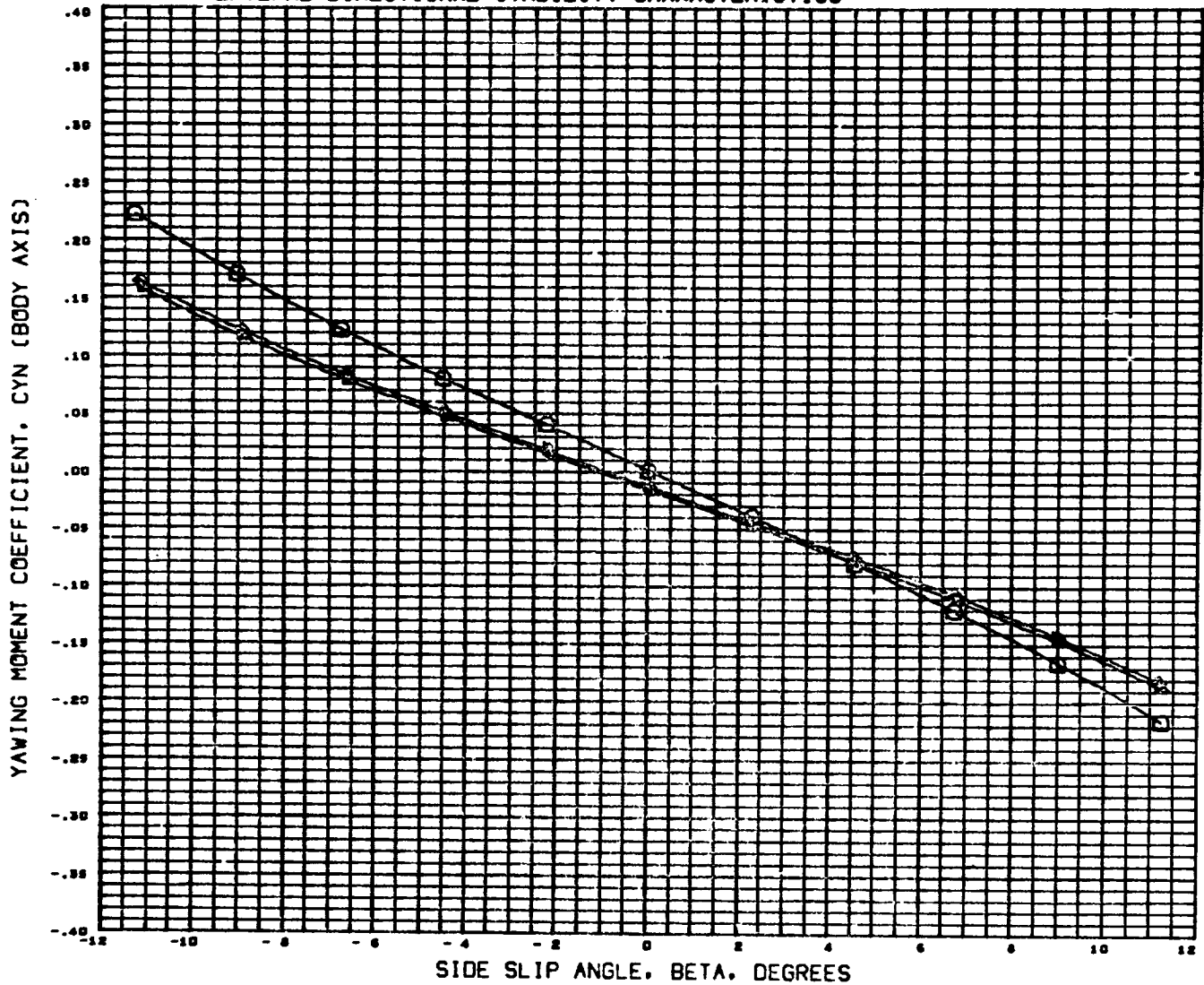
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419F)	M492-NSFC AR11941-1 MODEL 82M6V2011

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION	
SREF	4.6225 80. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 0.799

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E34197)	N492-NBFC	AR11981-1	MODEL	B2W8011
(E34197)		DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E34197)		AR11981-1	MODEL	B2W8V2011
(E34197)		DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E34198)	N492-NBFC	AR11981-1	MODEL	B2W8V2011
(E34198)		DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E34198)		DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E34198)		DATA NOT AVAILABLE FOR ALL CONDITIONS		

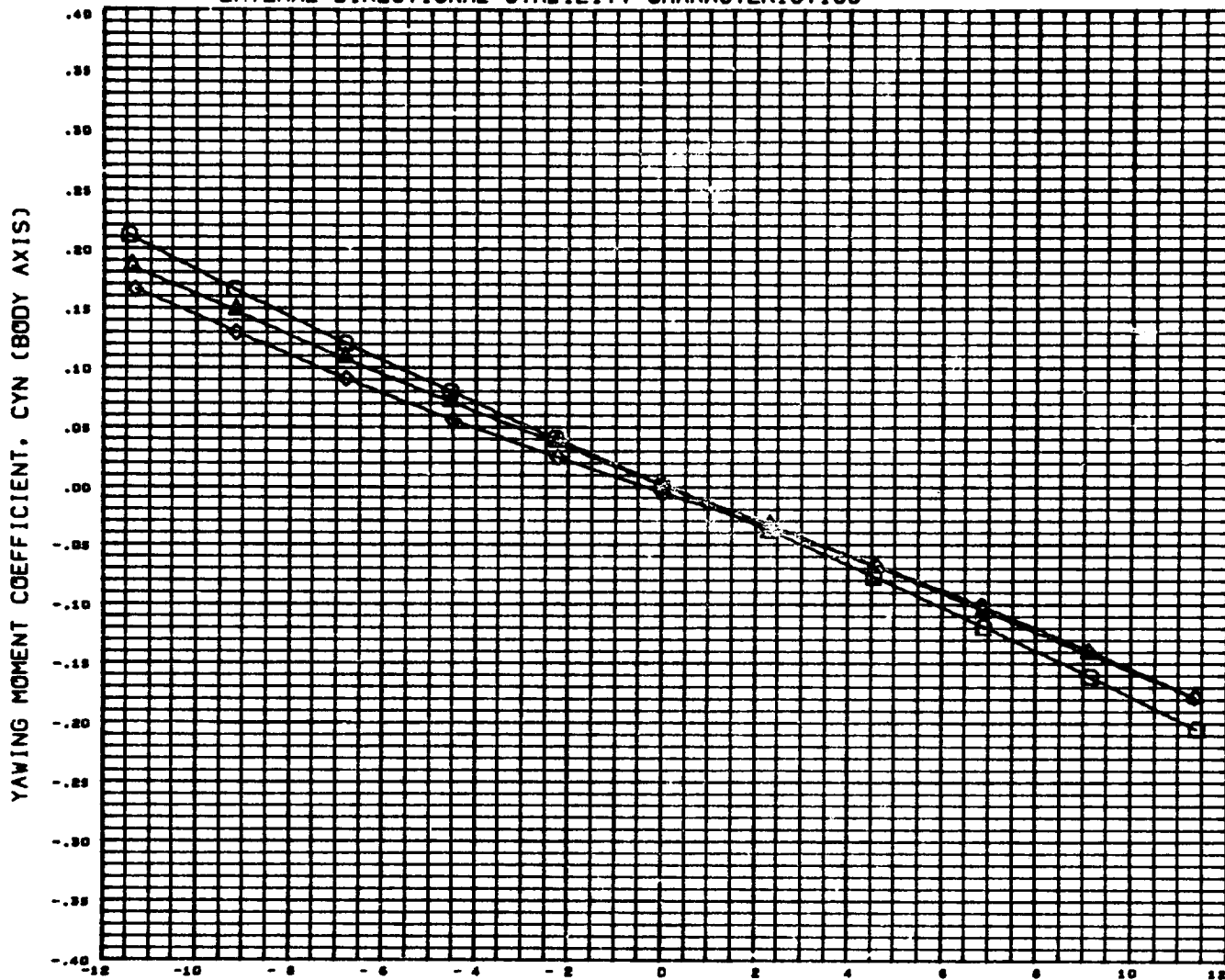
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	sq. in.
LRFP	4.3000	in.
SRFP	4.3000	in.
XMRP	2.4000	in.
YMRP	0.0000	in.
ZMRP	0.0000	in.
SCALE	0.0025	

MACH 1.194

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3418F) **ORION** M492-HSFC- AR11981-1 MODEL S2W6011
 (E3418F) M492-HSFC AR11981-1 MODEL S2W6V1011
 (E3418F) M492-HSFC AR11981-1 MODEL S2W6V2011
 (E3413H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3413F) DATA NOT AVAILABLE FOR ALL CONDITIONS

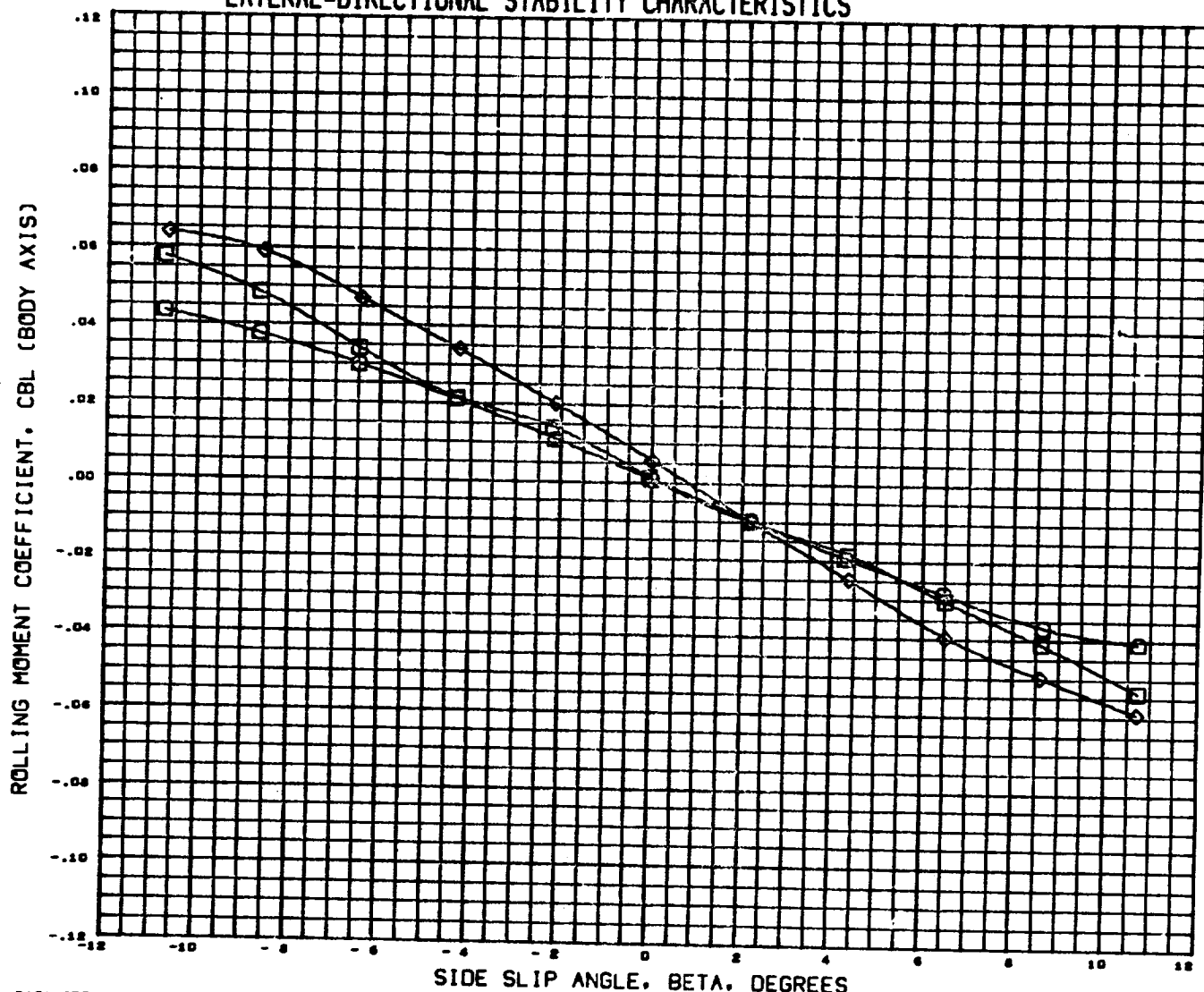
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	86.1M.
LREF	4.3000	1M.
BREF	4.3000	1M.
XMRP	2.4000	1M.
YMRP	0.0000	1M.
ZMRP	0.0000	1M.
SCALE	0.0025	

MACH 1.064

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3416F) N492-HSFC- AR11981-1 MODEL B2W5011
 (E3416F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3416F) N492-HSFC AR11981-1 MODEL B2W6V2011
 (E3416F) N492-HSFC AR11981-1 MODEL B2W6V2011
 (E3416F) DATA NOT AVAILABLE FOR ALL CONDITIONS

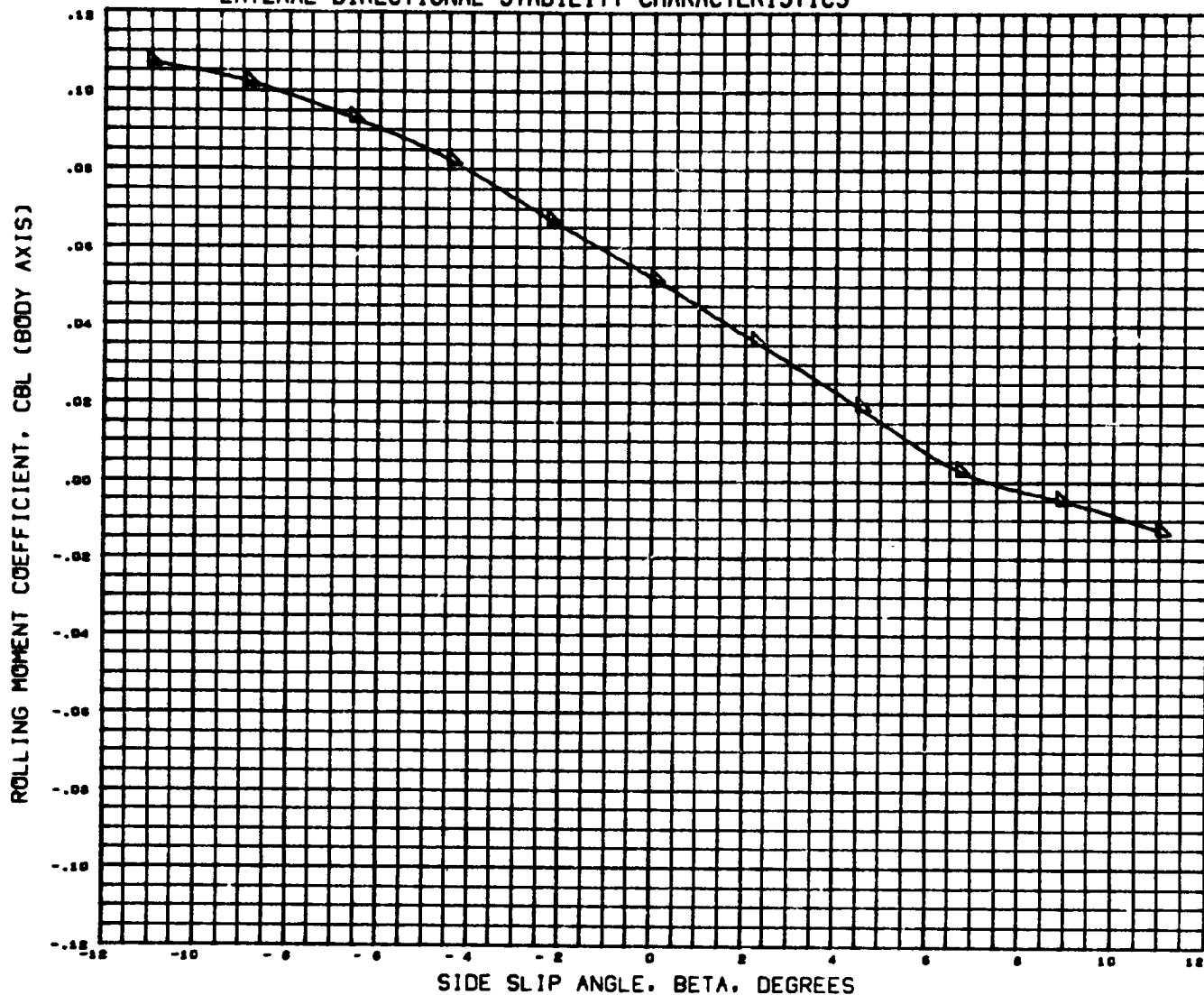
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	86. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.997

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E9410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000		
(E9410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000		
(E9410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000		
(E9410F)		DATA NOT AVAILABLE FOR ALL CONDITIONS	19.500	0.000	0.000		
(E9410F)	M492-M5FC	AR11981-1	MODEL	B2W6V2011	0.000	0.000	10.000

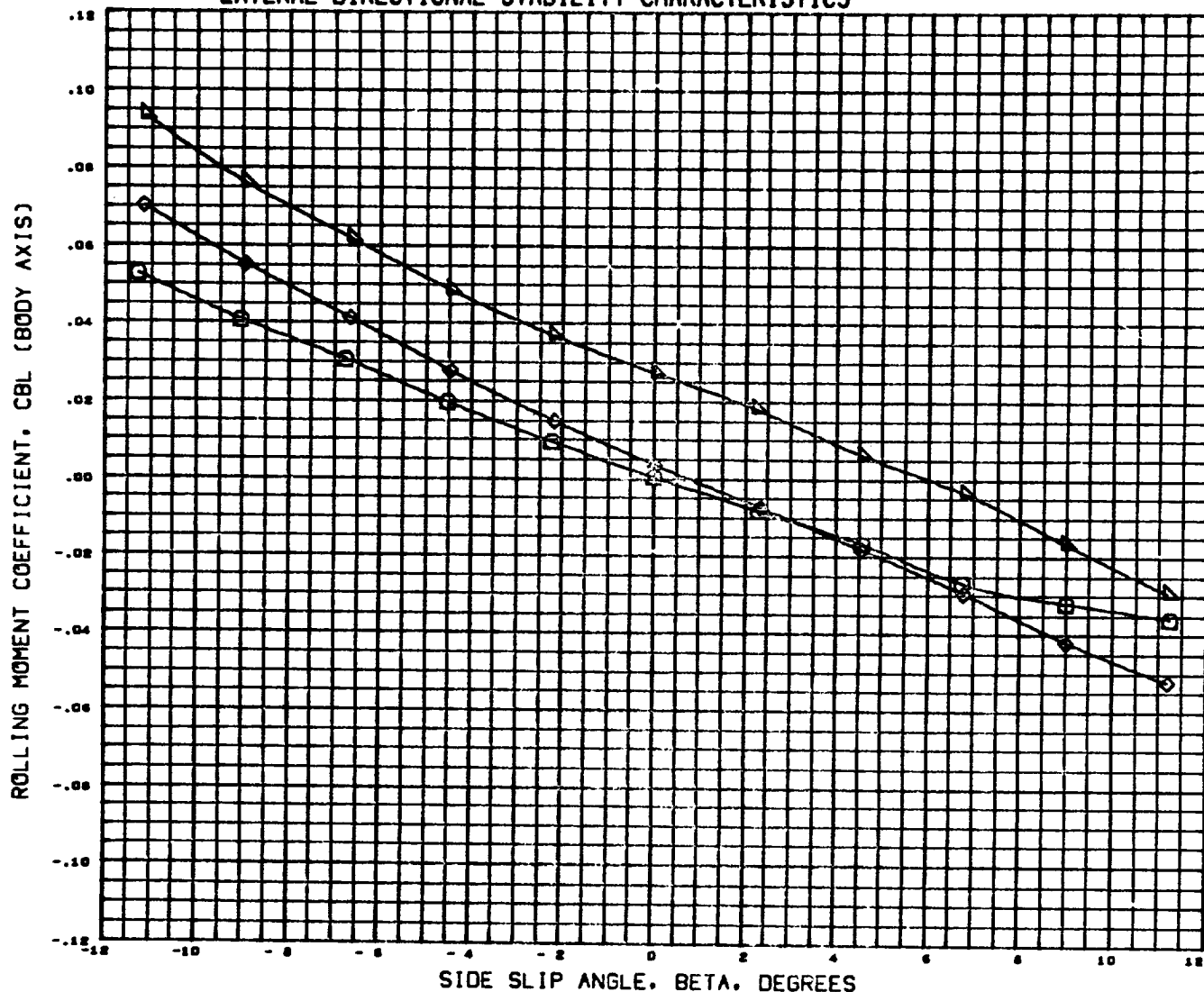
MACH 0.799

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
19.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

BREF	4.6225	88. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3410F)	N492-WBFC-	AR11981-1	MODEL	B2W6011
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3410F)	N492-WBFC	AR11981-1	MODEL	B2W6V2011
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3410F)	N492-WBFC	AR11981-1	MODEL	B2W6V2011

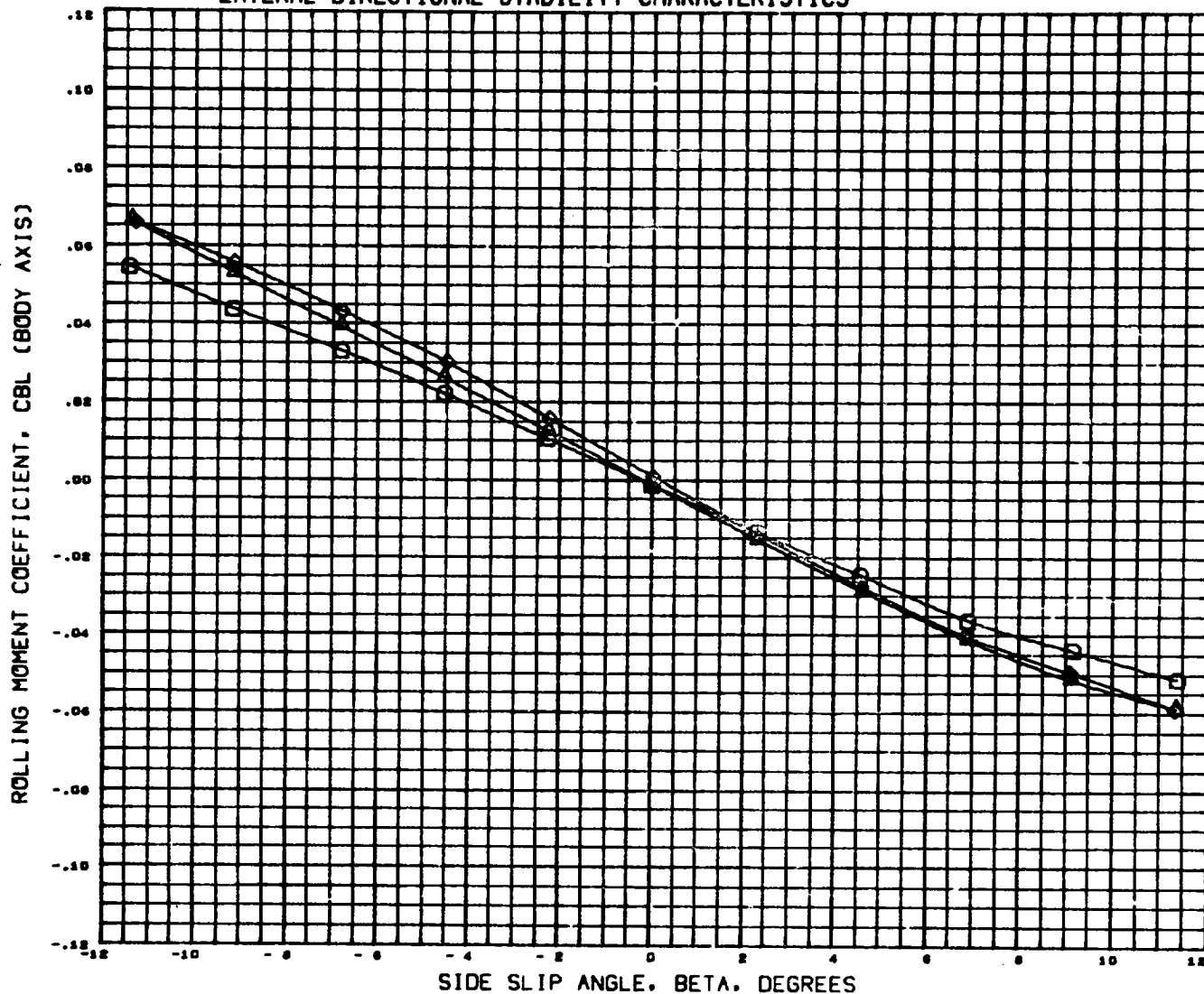
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

NACN 1.194

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3410P)	AR11981-1	MODEL	BZWS011
(E3410F)		MODEL	BZWSV1011
(E3410F)		MODEL	BZWSV2011
(E3410H)		DATA NOT AVAILABLE FOR ALL CONDITIONS	
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS		

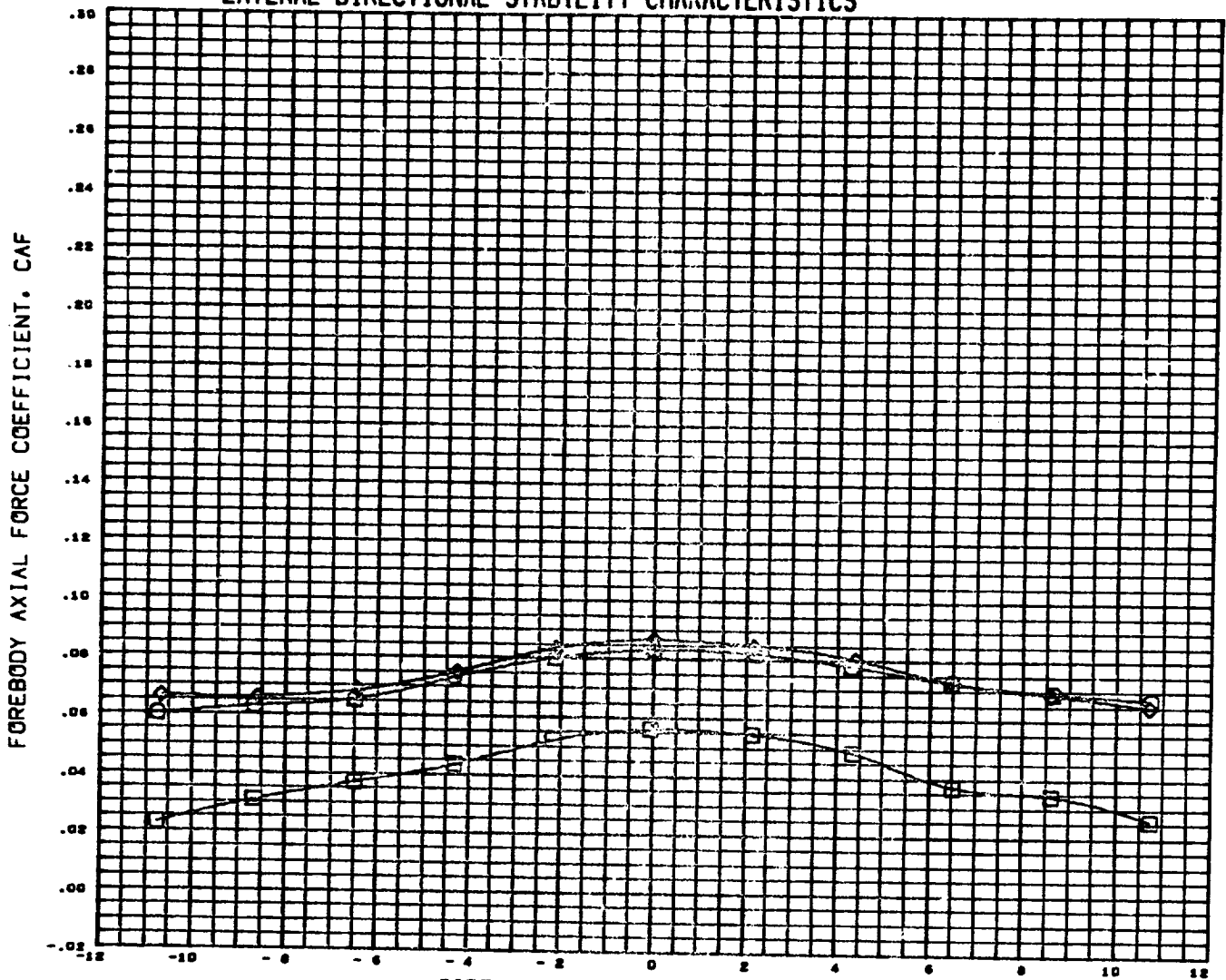
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	30. IN
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0625	

MACH 1.964

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3419F)		M492-HSFC- AR11981-1	MODEL	B2W6011
(E3419F)		DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E3419F)		M492-HSFC AR11981-1	MODEL	B2W6V2011
(E3419H)		M492-HSFC AR11981-1	MODEL	B2W6V2011
(E3419F)		DATA NOT AVAILABLE FOR ALL CONDITIONS		

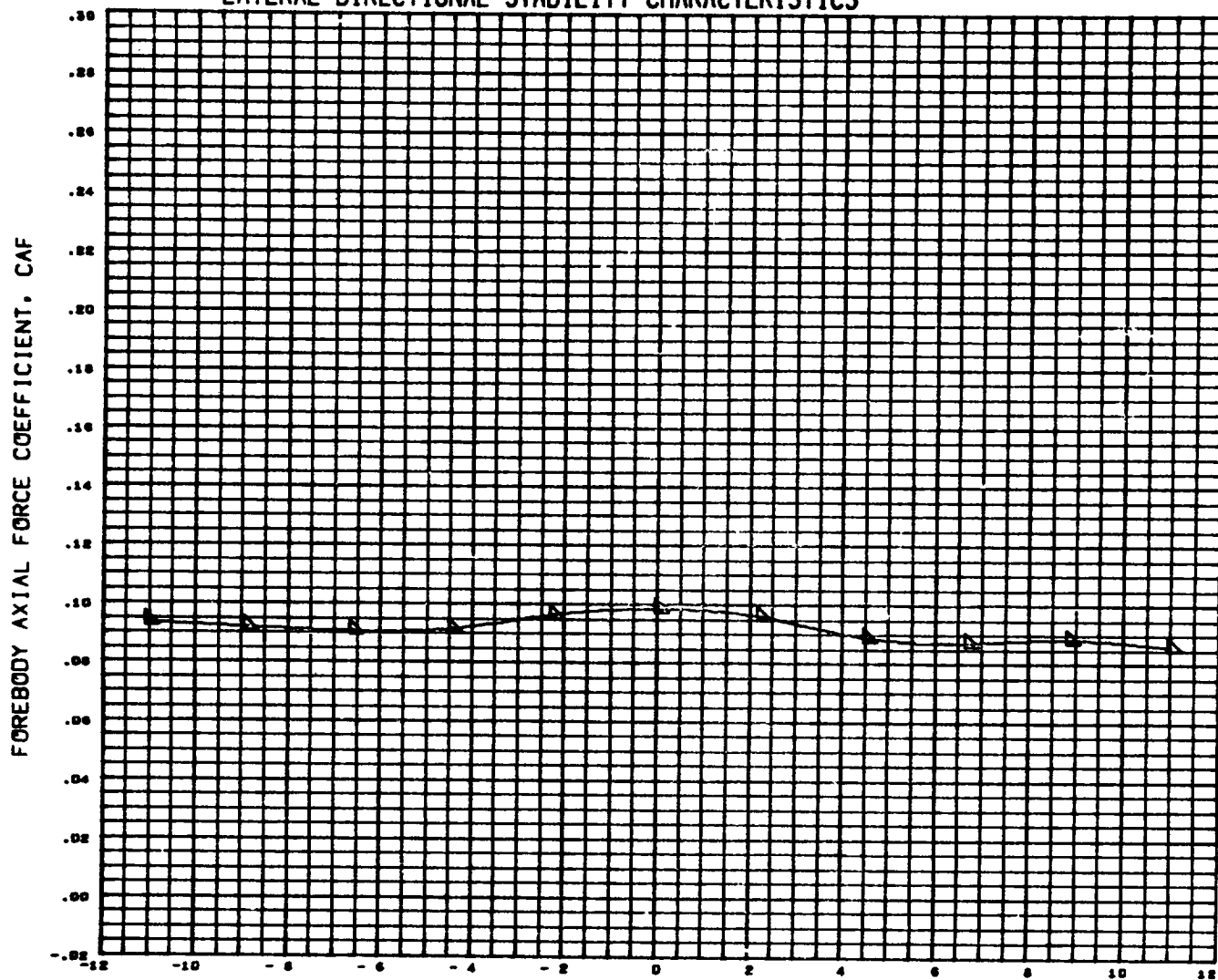
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.597

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

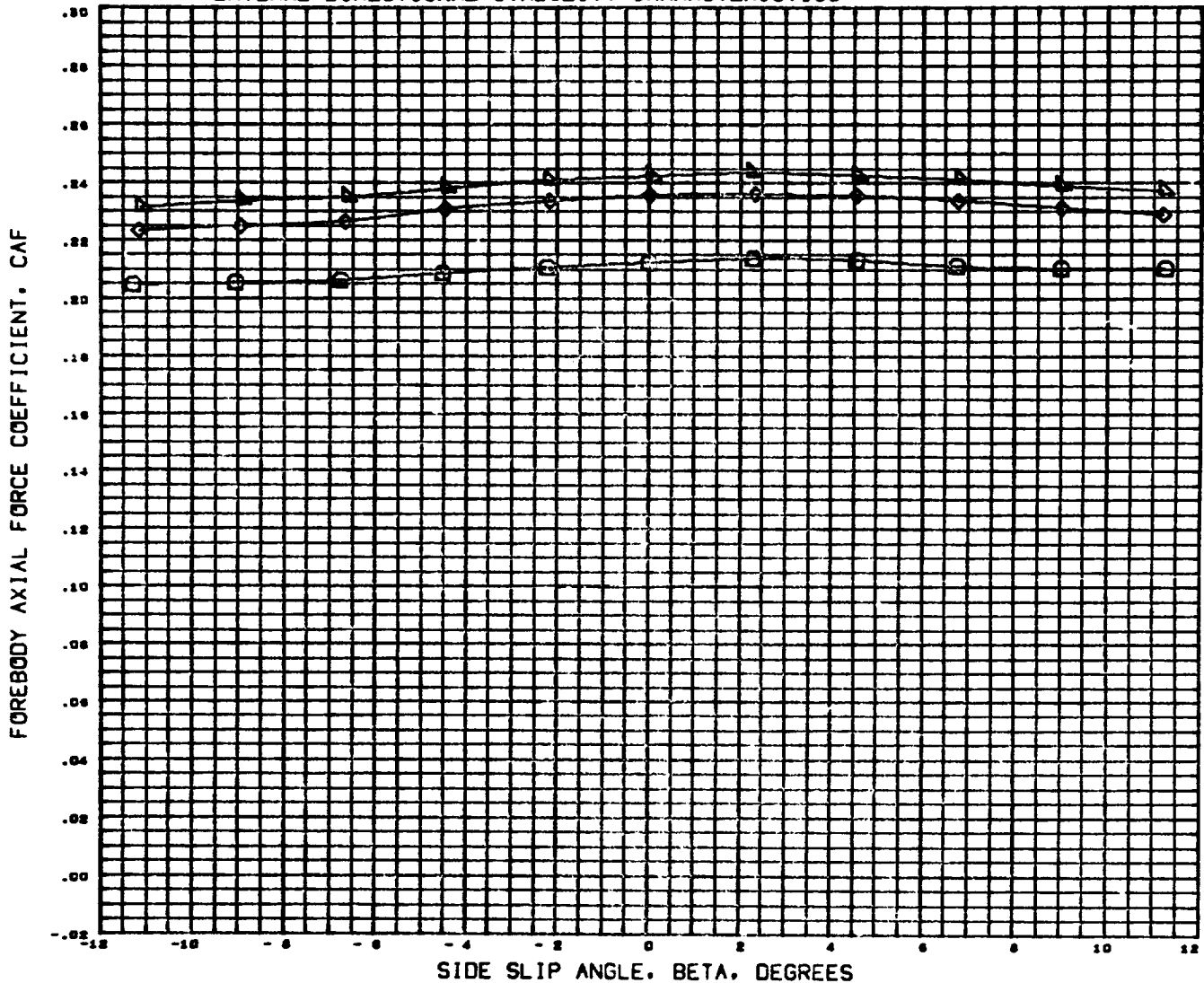
(E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3415H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) M492-N3FC AR119#1-1 MODEL SZW6V2011

ALPHA ELEVTR AILRON
 0.000 0.000 0.000
 0.000 0.000 0.000
 0.000 0.000 0.000
 15.500 0.000 0.000
 0.000 0.000 10.000

REFERENCE INFORMATION
 SREF 4.6225 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.799

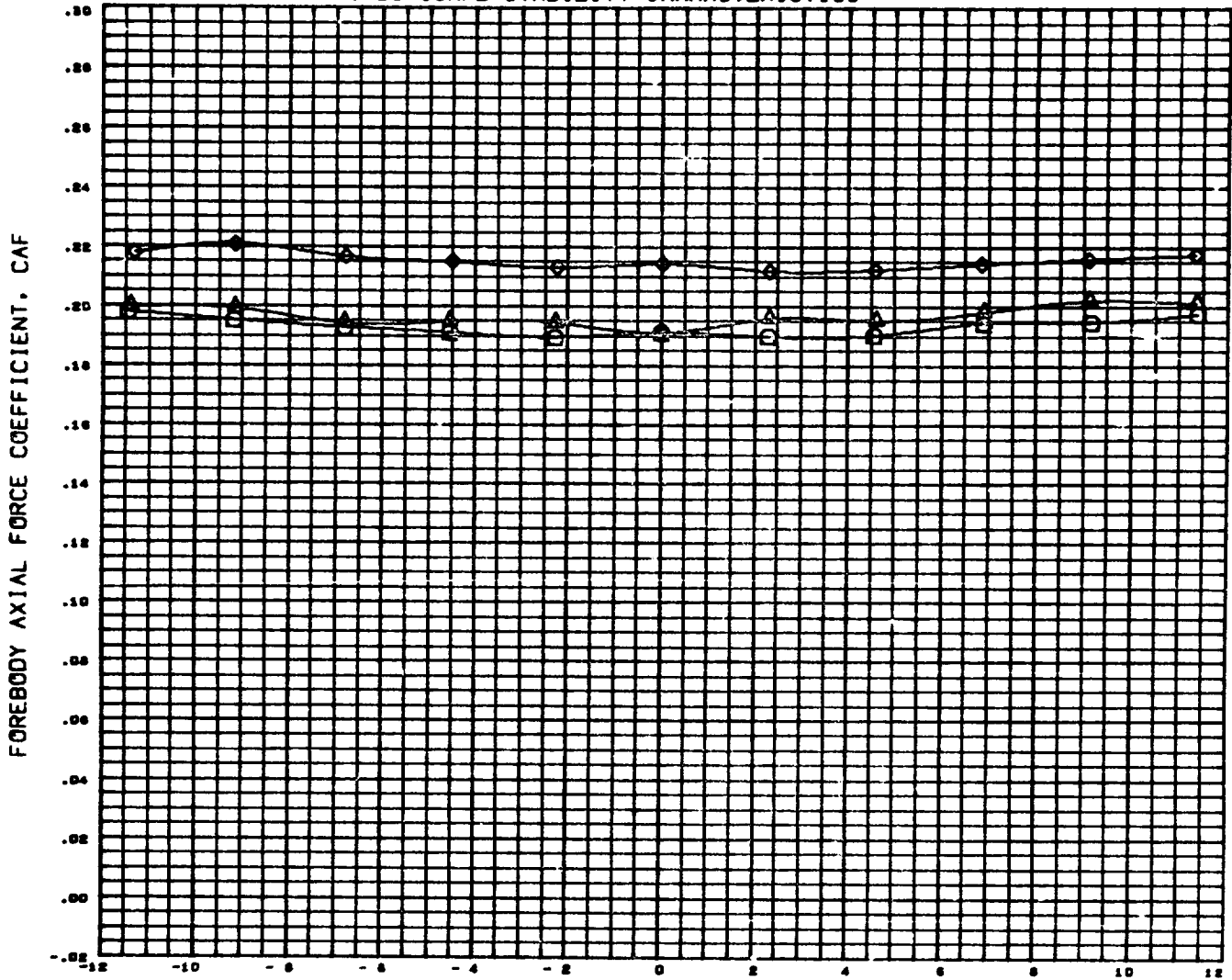
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	REFERENCE INFORMATION
(E3419F)	N492-MSFC- AR1198I-1 MODEL B2M6011	0.000	0.000	0.000	SREF 4.6225 38.1N.
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	LREF 4.3000 IN.
(E3415F)	N492-MSFC AR1198I-1 MODEL B2W6V2011	0.000	0.000	0.000	SREF 4.3000 IN.
(E3415N)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	XNRF 2.4000 IN.
(E3416F)	N492-MSFC AR1198I-1 MODEL B2W6V2011	0.000	0.000	10.000	YNRF 0.0000 IN.
					ZNRF 0.0000 IN.
					SCALE 0.0085

MACH 5.194

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



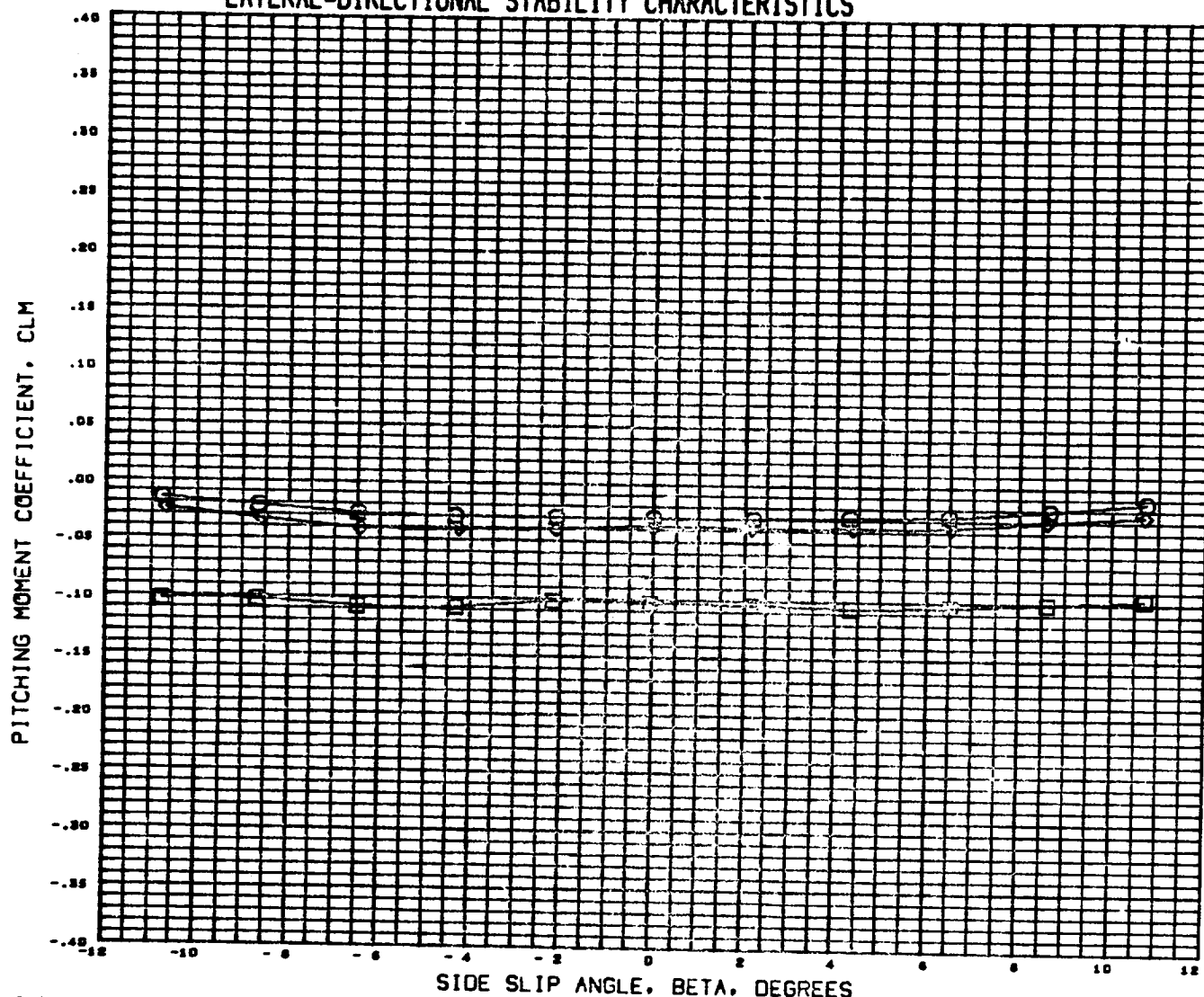
DATA SET SYMBOL CONFIGURATION DESCRIPTION SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON
(E3410F)	N492-NSFC- AR11901-1 MODEL BZW6011	0.000	0.000	0.000
(E3410F)	N492-NSFC AR11901-1 MODEL BZW61011	0.000	0.000	0.000
(E3410F)	N492-NSFC AR11901-1 MODEL BZW62011	0.000	0.000	0.000
(E3410H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000
(E3410F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	10.000

REFERENCE INFORMATION	
BREF	4.6225 88.1N.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.964

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3418F) N492-NSFC- AR11981-1 MODEL B2W8011
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) N492-NSFC AR11981-1 MODEL B2W8V2011
 (E3418H) N492-NSFC AR11981-1 MODEL B2W8V2011
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS

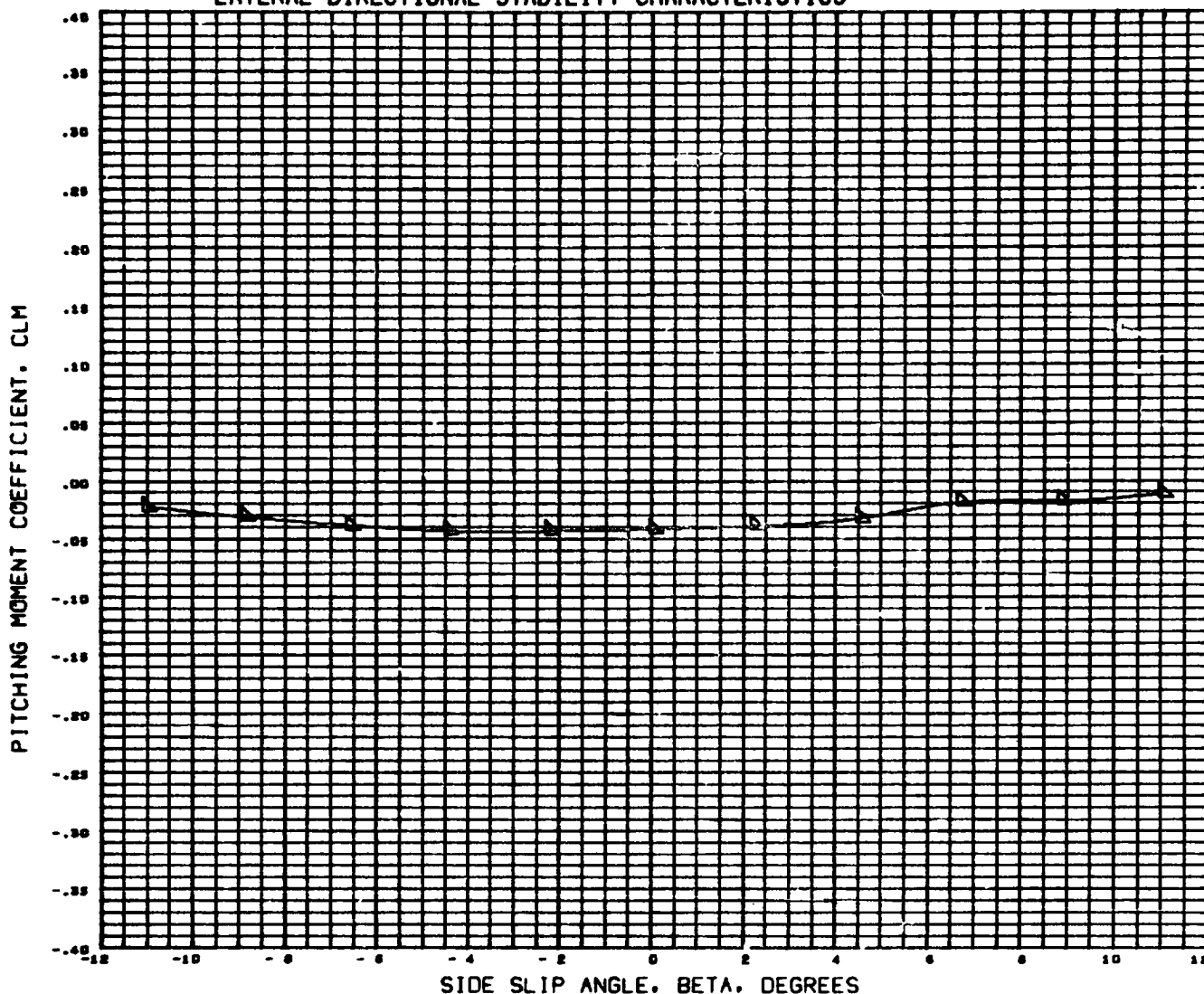
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	38. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XHRP	2.4000	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0025	

MACH 0.597

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3419F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3419F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3419F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3419H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3419F) N492-NSFC AR11981-1 MODEL BEM6V2011

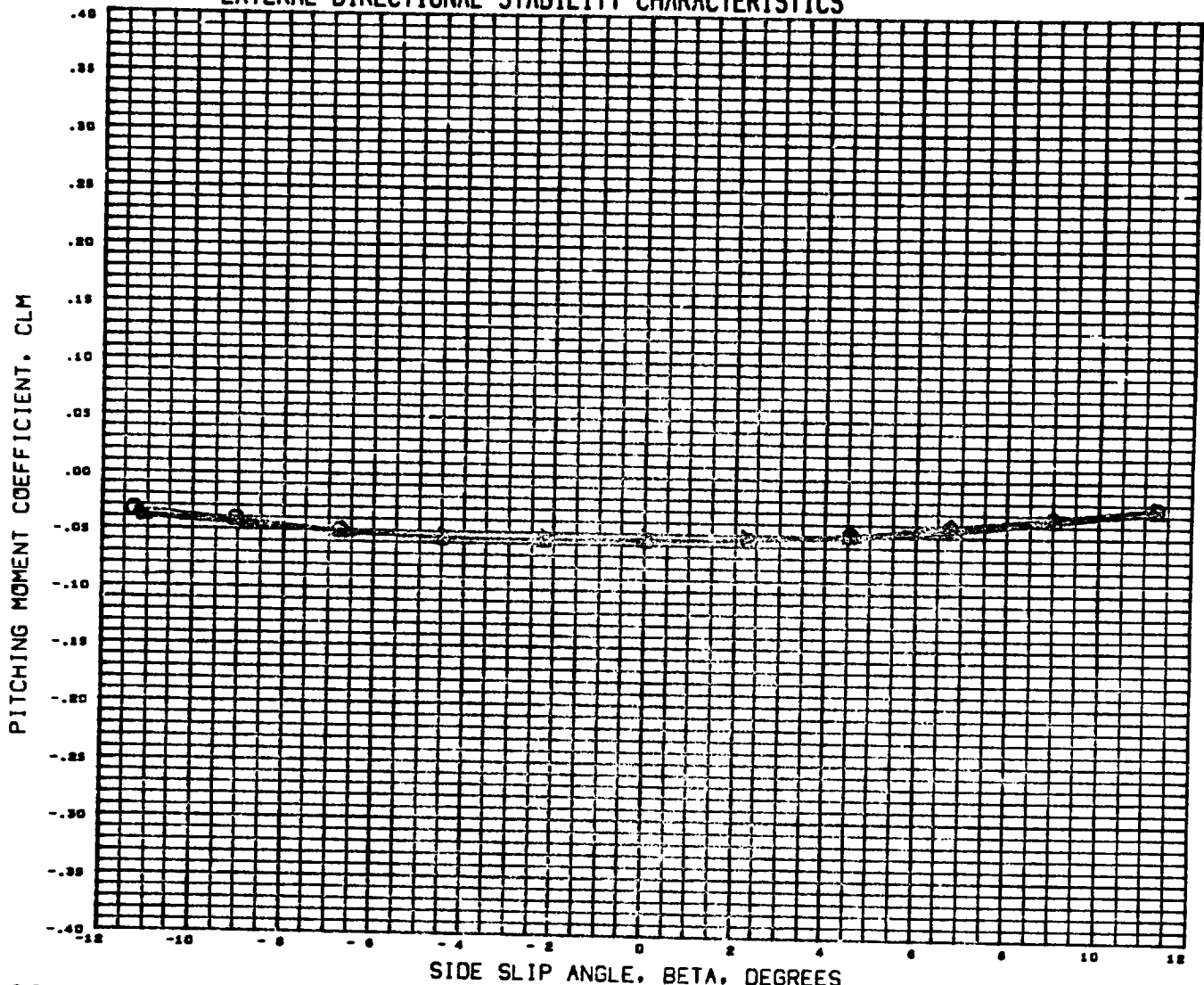
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	88. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.799

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3419F)	M492-MSFC-	AR11981-1	MODEL	B2W6011
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3415F)	M492-MSFC	AR11981-1	MODEL	B2W6V2011
(E3415H)	DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3416F)	M492-MSFC	AR11981-1	MODEL	B2W6V2011

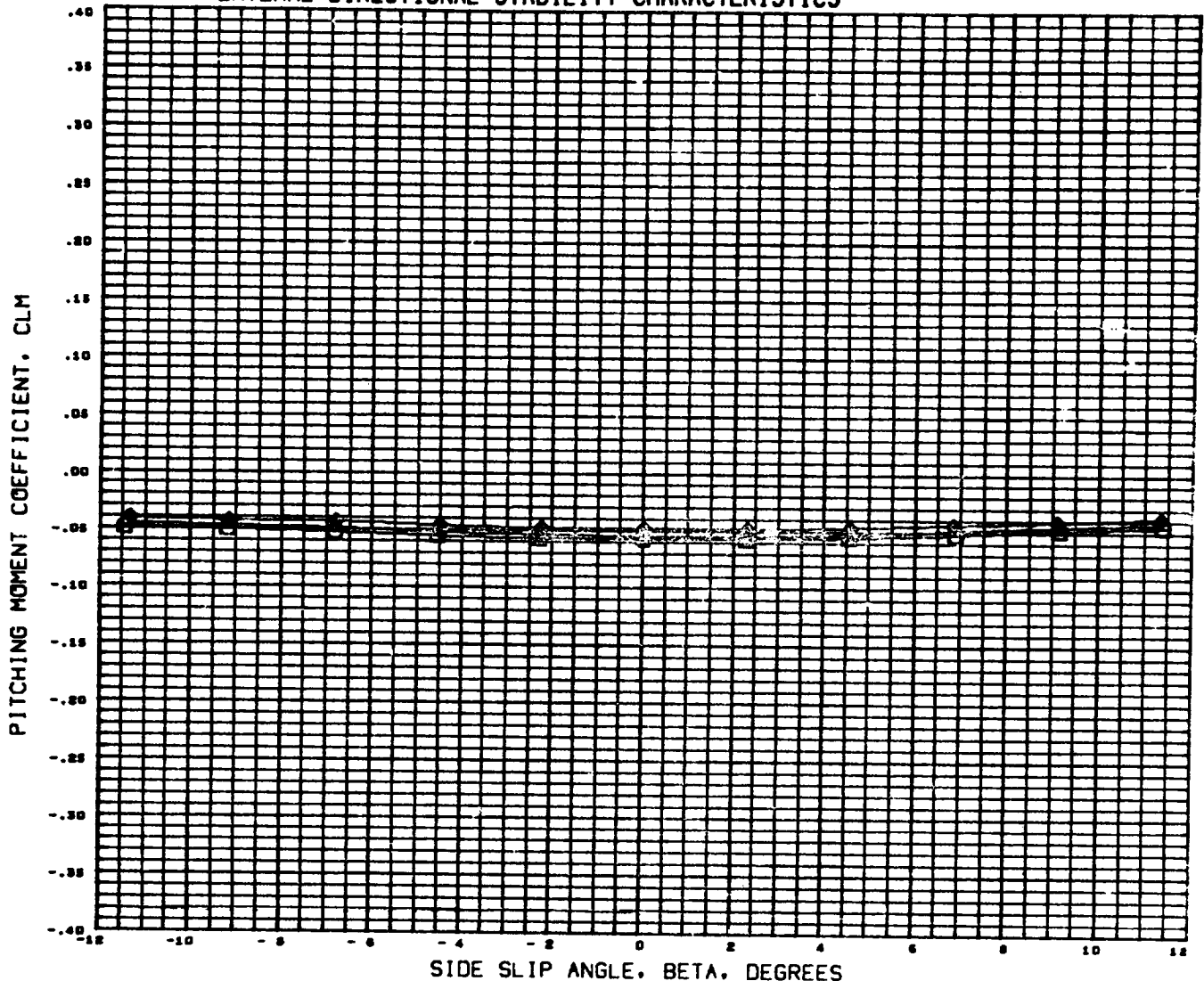
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	50. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XHRP	2.4000	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0025	

MACH 1.194

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



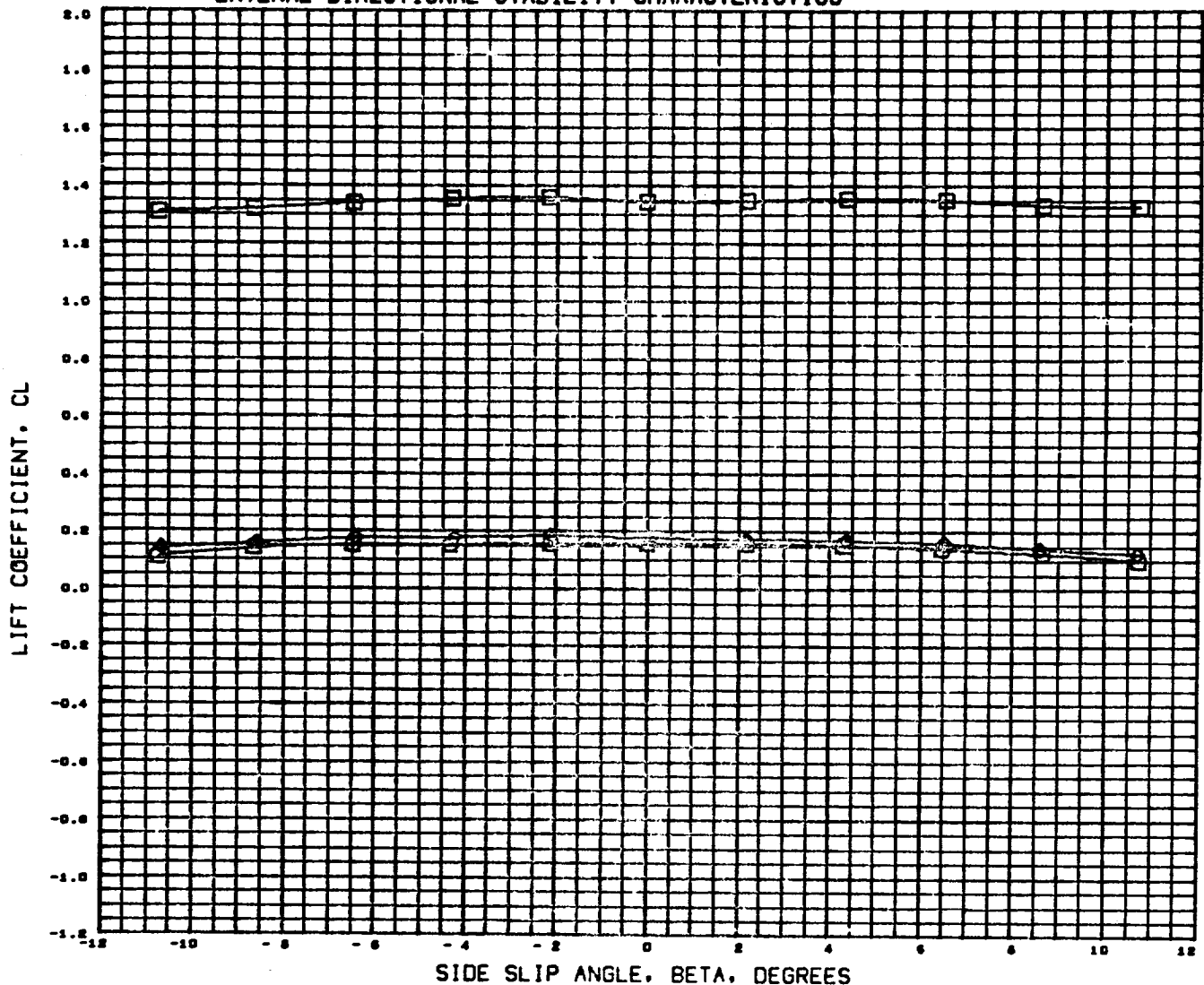
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3419F)	N492-NSFC- AR11981-1 MODEL B2W6011
(E3419F)	N492-NSFC AR11981-1 MODEL B2W6V1011
(E3419F)	N492-NSFC AR11981-1 MODEL B2W6V2011
(E3419H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION	
SREF	4.6225 sq.in.
LREF	4.3000 in.
BREF	4.3000 in.
XMRP	2.4000 in.
YMRP	0.0000 in.
ZMRP	0.0000 in.
SCALE	0.0025

MACH 1.964

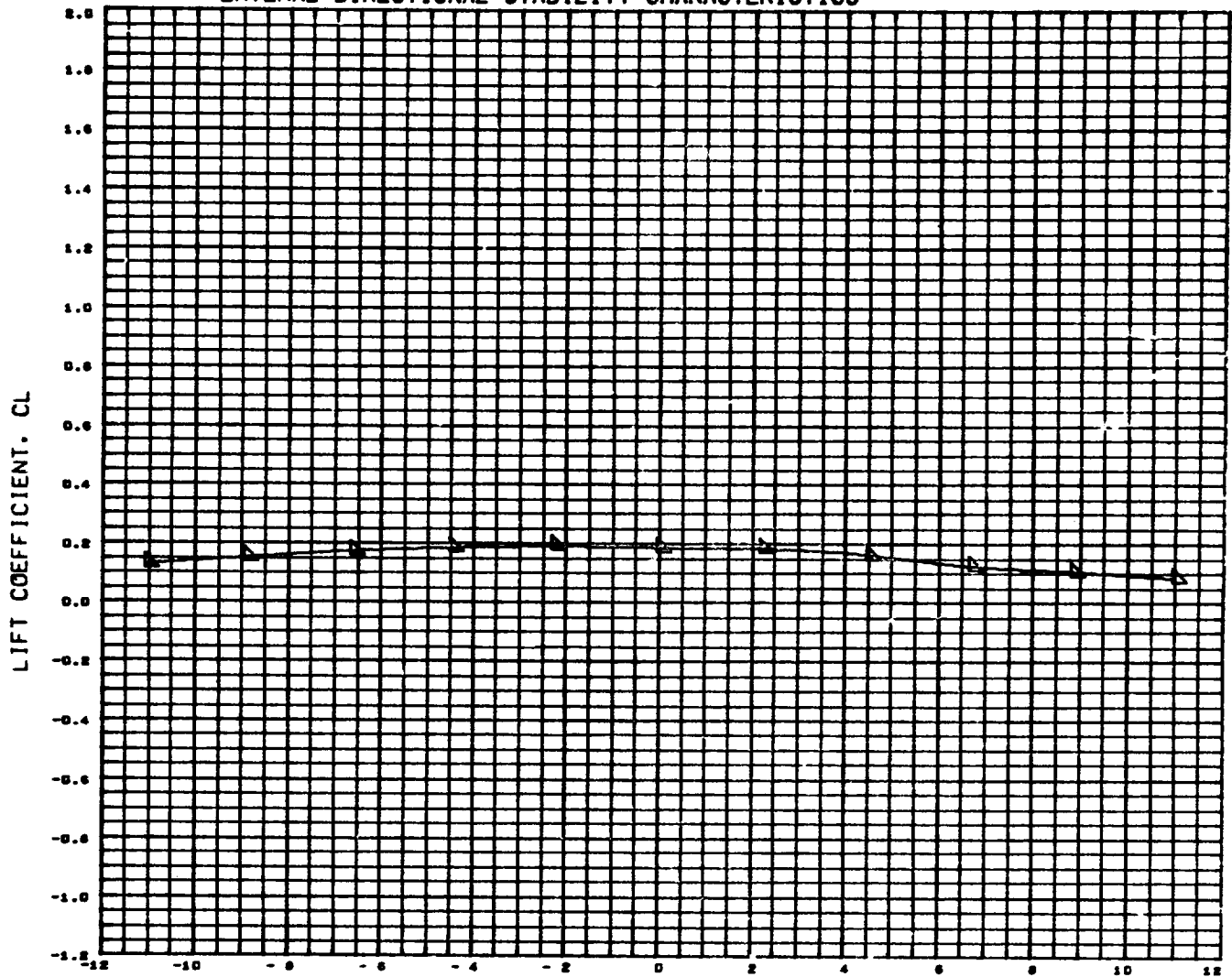
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	REFERENCE INFORMATION
(E3419F)	N492-MSFC- AR11981-1 MODEL B2WS011	0.000	0.000	0.000	SREF 4.6225 80.IN.
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	LREF 4.3000 IN.
(E3415F)	N492-MSFC AR11981-1 MODEL B2WSY2011	0.000	0.000	0.000	BREF 4.3000 IN.
(E3415H)	N492-MSFC AR11981-1 MODEL B2WSY2011	15.500	0.000	0.000	XMRP 2.4000 IN.
(E3416F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	10.000	YMRP 0.0000 IN.
					ZMRP 0.0000 IN.
					SCALE 0.0025

MACH 0.997

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



SIDE SLIP ANGLE, BETA, DEGREES

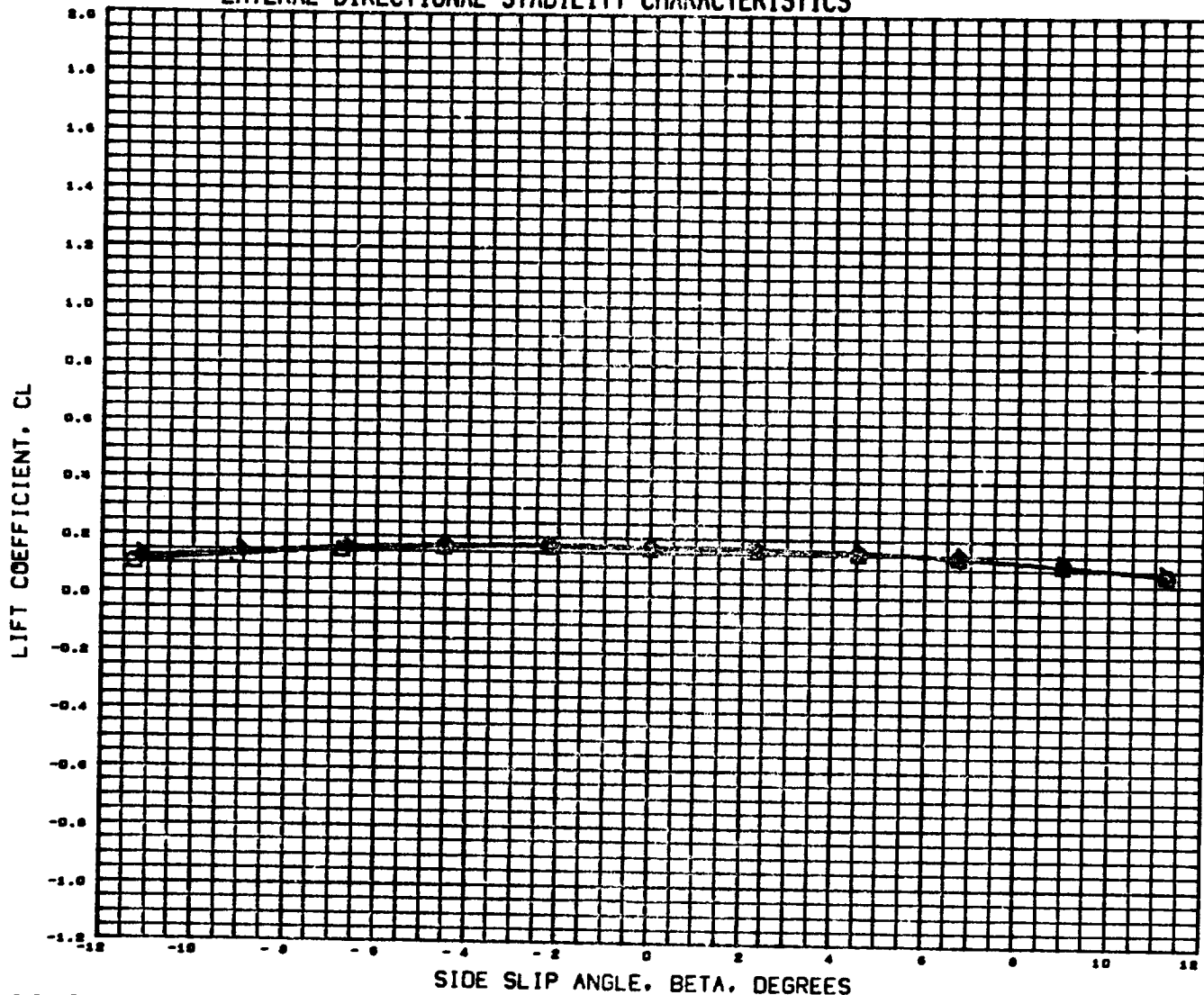
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3410F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3410F) M492-MSFC AR11981-1 MODEL B2W6V2011

ALPHA ELEVTR AILRON
 0.000 0.000 0.000
 0.000 0.000 0.000
 0.000 0.000 0.000
 15.500 0.000 0.000
 0.000 0.000 10.000

REFERENCE INFORMATION
 BREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.799

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3419F)	ORR	N492-HSFC-	AR11981-1	MODEL	B2W8011
(E3419F)		DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3419F)		N492-HSFC	AR11981-1	MODEL	B2W8VZ011
(E3419F)		DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3419F)	ORR	N492-HSFC	AR11981-1	MODEL	B2W8VZ011

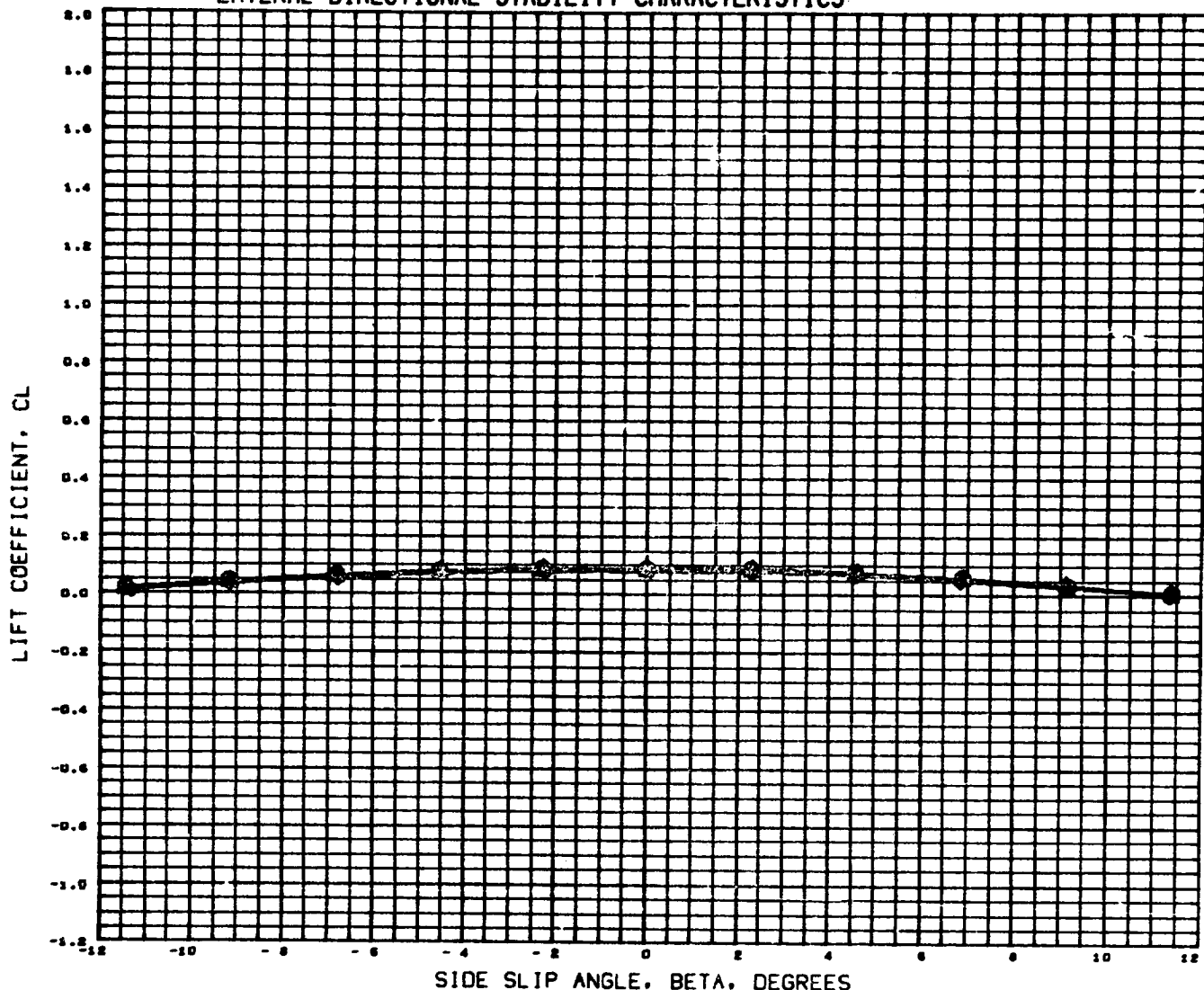
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.9225	88. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
YMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.194

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	REFERENCE INFORMATION
(E3419F)	N492-HSFC- AR11981-1 MODEL B2W6011	0.000	0.000	0.000	SREF 4.6225 59. IN.
(E3418F)	N492-HSFC AR11981-1 MODEL B2W6V1011	0.000	0.000	0.000	LREF 4.3000 IN.
(E3413F)	N492-HSFC AR11987-1 MODEL B2W6V2011	0.000	0.000	0.000	SREF 4.3000 IN.
(E3413H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	XMRP 2.4000 IN.
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	10.000	YMRP 0.0000 IN.
					ZMRP 0.0000 IN.
					SCALE 0.0025

MACH 1.984

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



SIDE SLIP ANGLE, BETA, DEGREES

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3419F)	M492-NSFC-	AR11981-1	MODEL	B2W6011
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS			
(E3419F)	M492-NSFC	AR11981-1	MODEL	B2W6V2011
(E3419H)	M492-NSFC	AR11981-1	MODEL	B2W6V2011
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS			

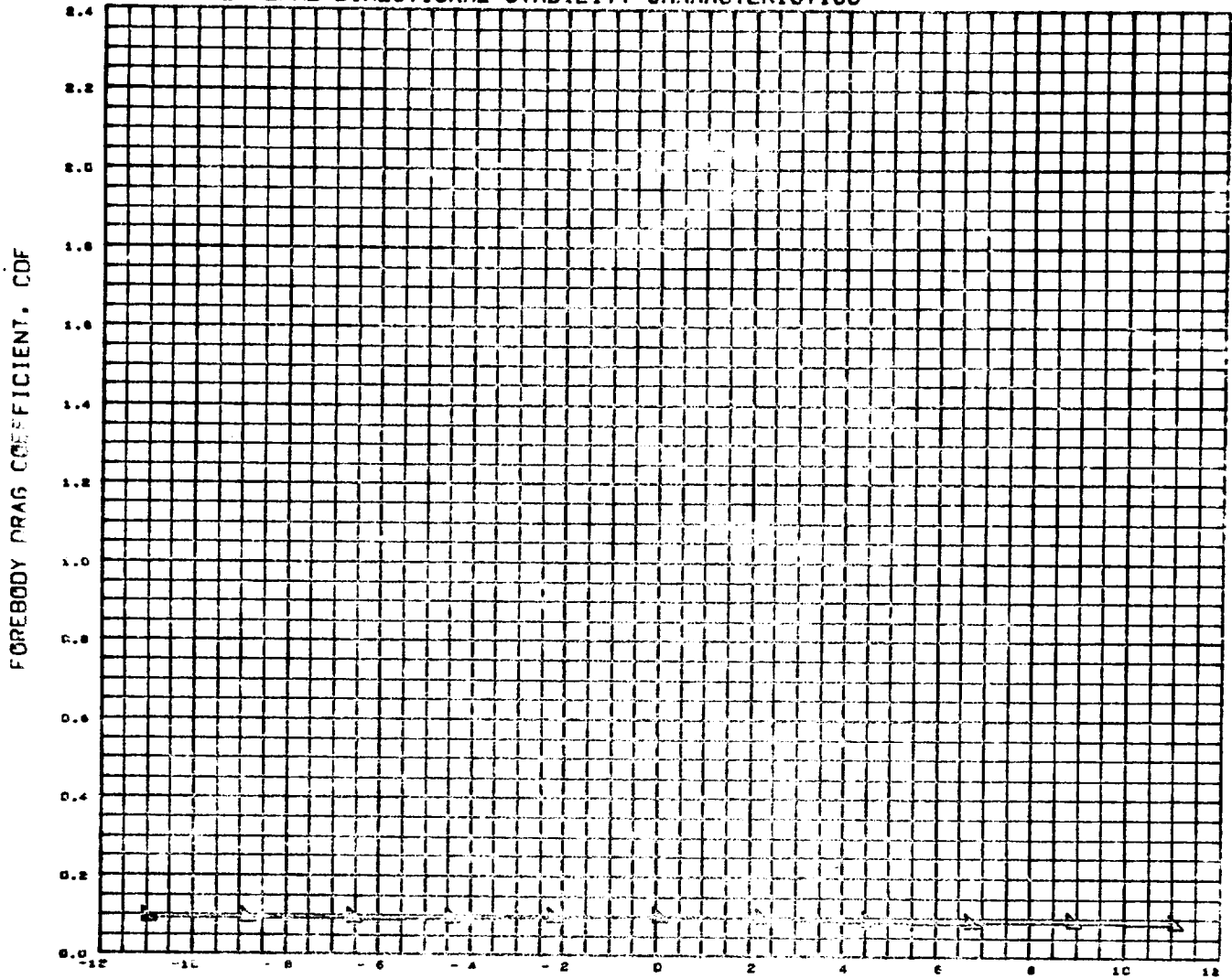
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.900	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.997

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



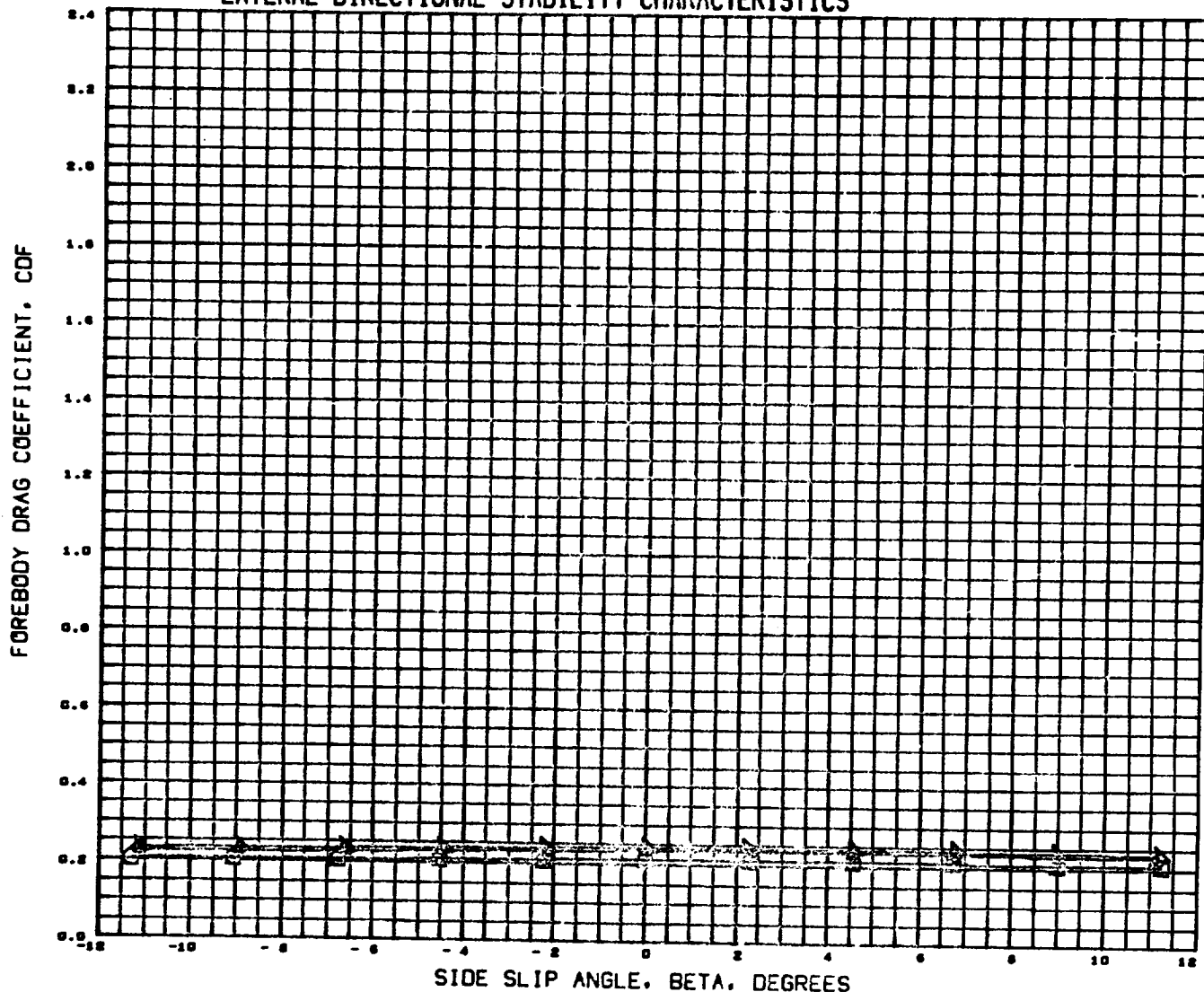
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) W497-W501 AR11901-1 MCEL 020672011

ALPHA	ELEVAT	AIRTON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.000	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION
 SREF 4.6225 50.1P.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.795

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



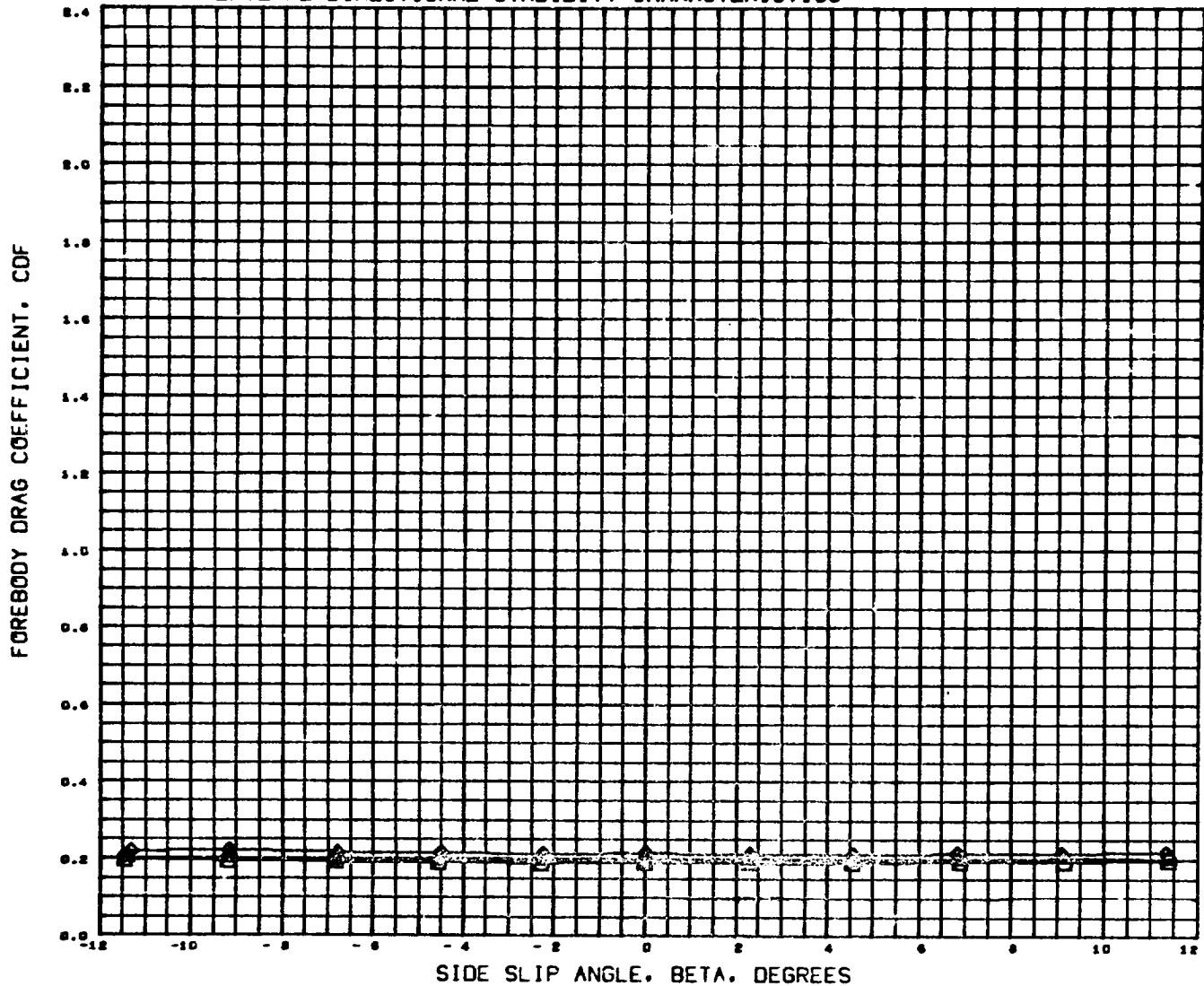
DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(E3419F)	N492-NSFC- AR11981-1 MODEL B2W6011
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419F)	N492-NSFC AR11981-1 MODEL B2W6V2011
(E3419H)	DATA NOT AVAILABLE FOR ALL CONDITIONS
(E3419F)	N492-NSFC AR11981-1 MODEL B2W6V2011

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION	
SREF	4.6225 80.IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.194

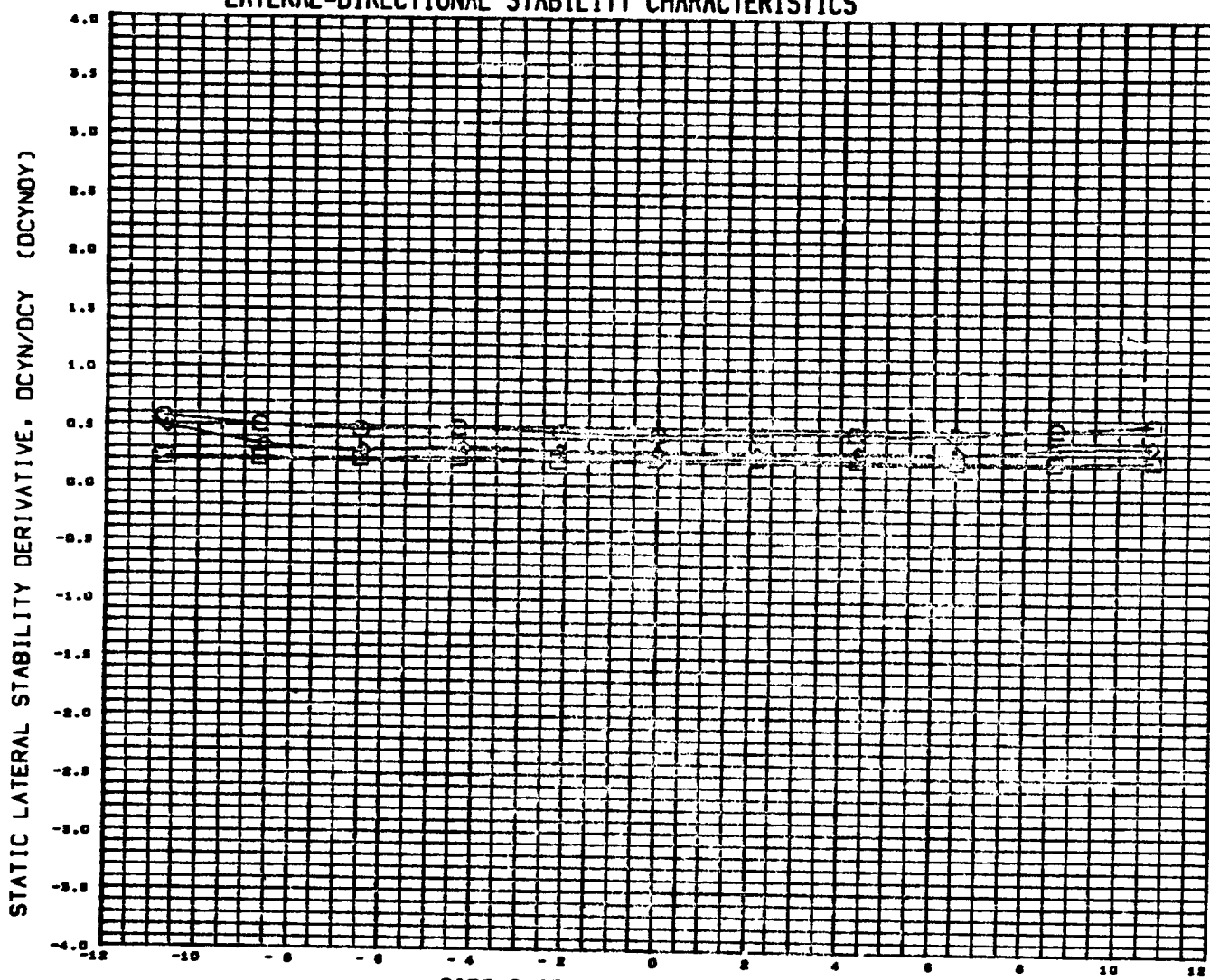
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	REFERENCE INFORMATION
(E3418F)	M492-MSFC- AR11981-1 MODEL B2W6011	0.000	0.000	0.000	SREF 4.6225 36.1N.
(E3418F)	M492-MSFC AR11981-1 MODEL B2W5V1011	0.000	0.000	0.000	LREF 4.3000 1N.
(E3418F)	M492-MSFC AR11981-1 MODEL B2W6V2011	0.000	0.000	0.000	SREF 4.3000 1N.
(E3418H)	DATA NOT AVAILABLE FOR ALL CONDITIONS	15.500	0.000	0.000	XMRP 2.4000 1N.
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	10.000	YMRP 0.0000 1N.
					ZMRP 0.0000 1N.
					SCALE 0.0025

MACH 1.964

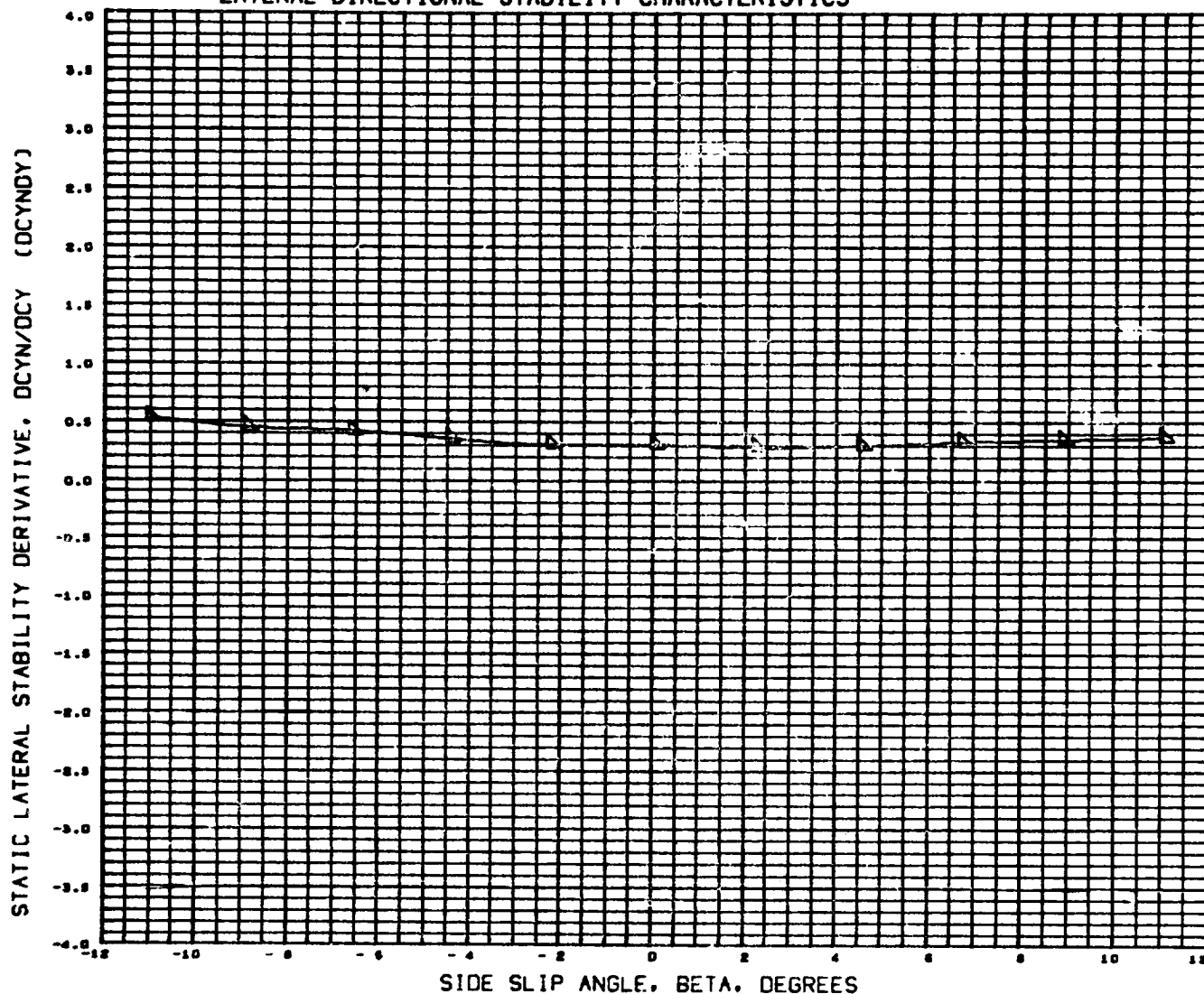
LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON	REFERENCE INFORMATION
(E3419F)	M492-NSFC- AR11981-1 MODEL B2W6011	0.000	0.000	0.000	SREF 4.6225 30 IN.
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	0.000	LREF 4.3000 IN.
(E3419F)	M492-NSFC AR11981-1 MODEL B2W6V2011	0.000	0.000	0.000	SREF 4.3000 IN.
(E3419F)	M492-NSFC AR11981-1 MODEL B2W6V2011	15.500	0.000	0.000	XNRP 2.4000 IN.
(E3419F)	DATA NOT AVAILABLE FOR ALL CONDITIONS	0.000	0.000	10.000	YNRP 0.0000 IN.
					ZNRP 0.0000 IN.
					SCALE 0.0025

NACH 0.597

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) N422-H3FC AR11981-1 MODEL 82W4V2011

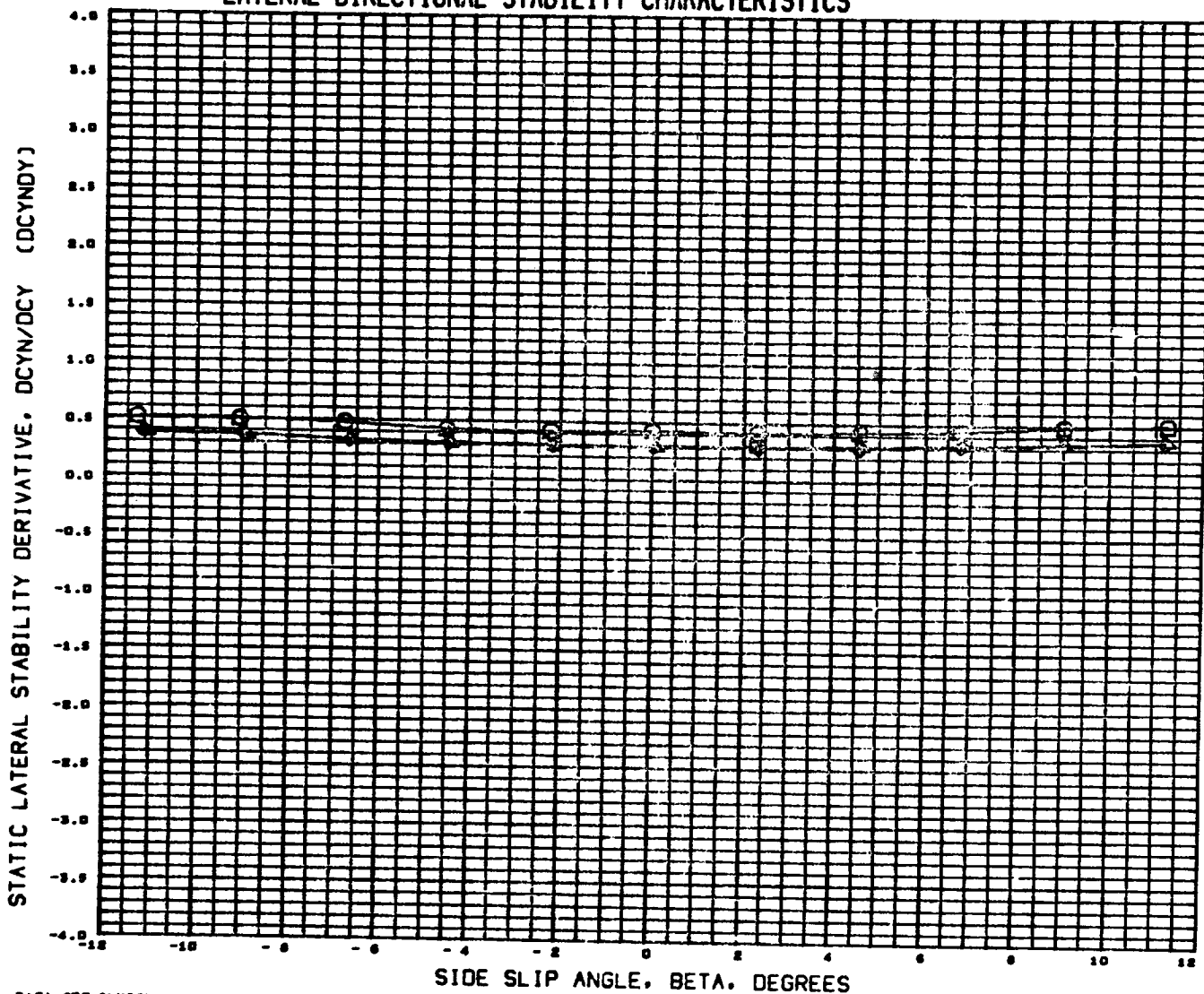
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	80.IN.
LREF	4.3000	IN.
SREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.799

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3418F)	N492-NSFC- AR11861-1	MODEL	B2W6011
(E3418F)	DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E3418F)	N492-NSFC AR11861-2	MODEL	B2W6V2011
(E3418H)	DATA NOT AVAILABLE FOR ALL CONDITIONS		
(E3418F)	N492-NSFC AR11861-3	MODEL	B2W6V2011

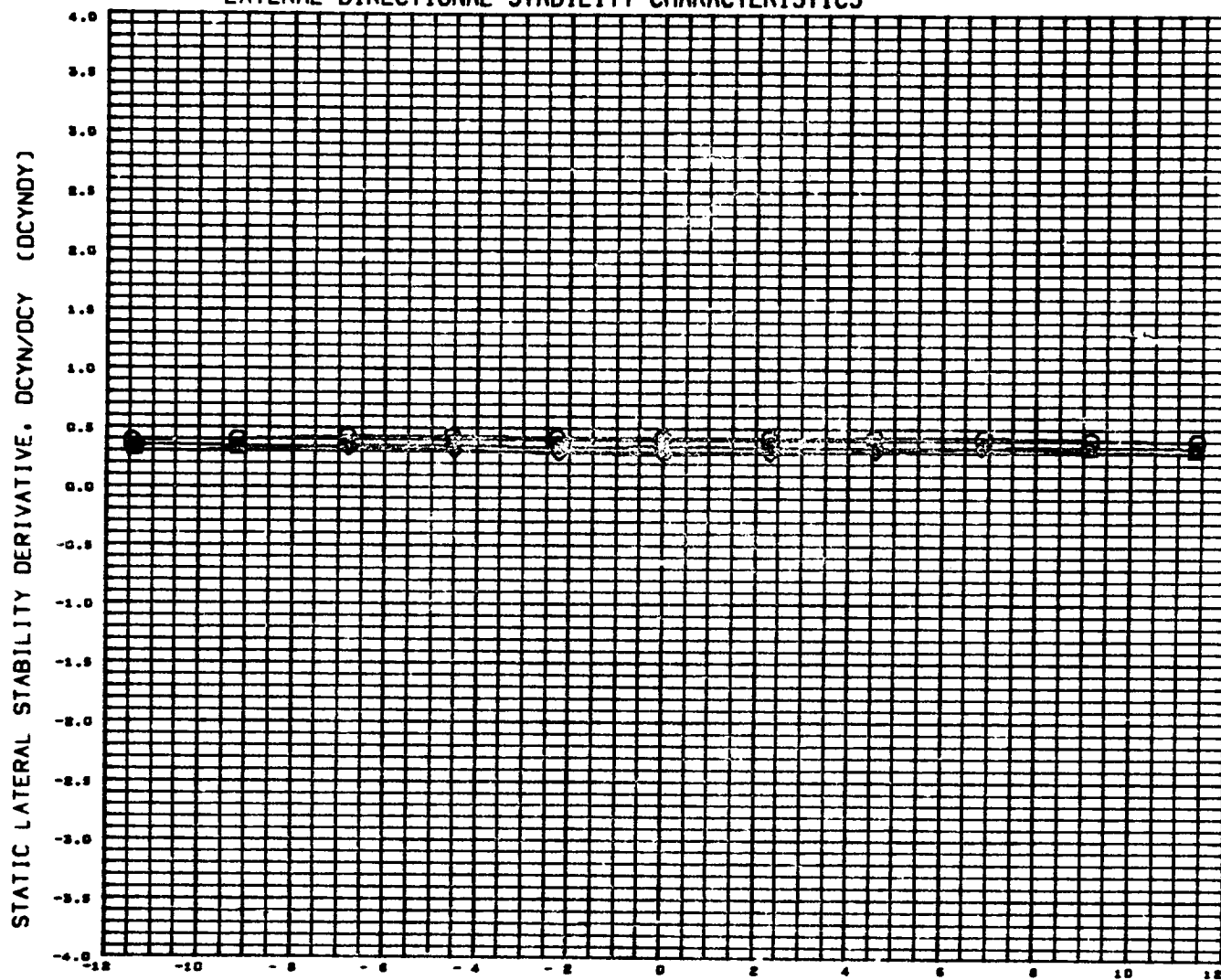
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.300	0.000	0.000
0.000	0.000	10.000

REFERENCE INFORMATION

SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
YHRP	2.4000	IN.
YHRP	0.0000	IN.
ZHRP	0.0000	IN.
SCALE	0.0025	

MACH 1.184

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



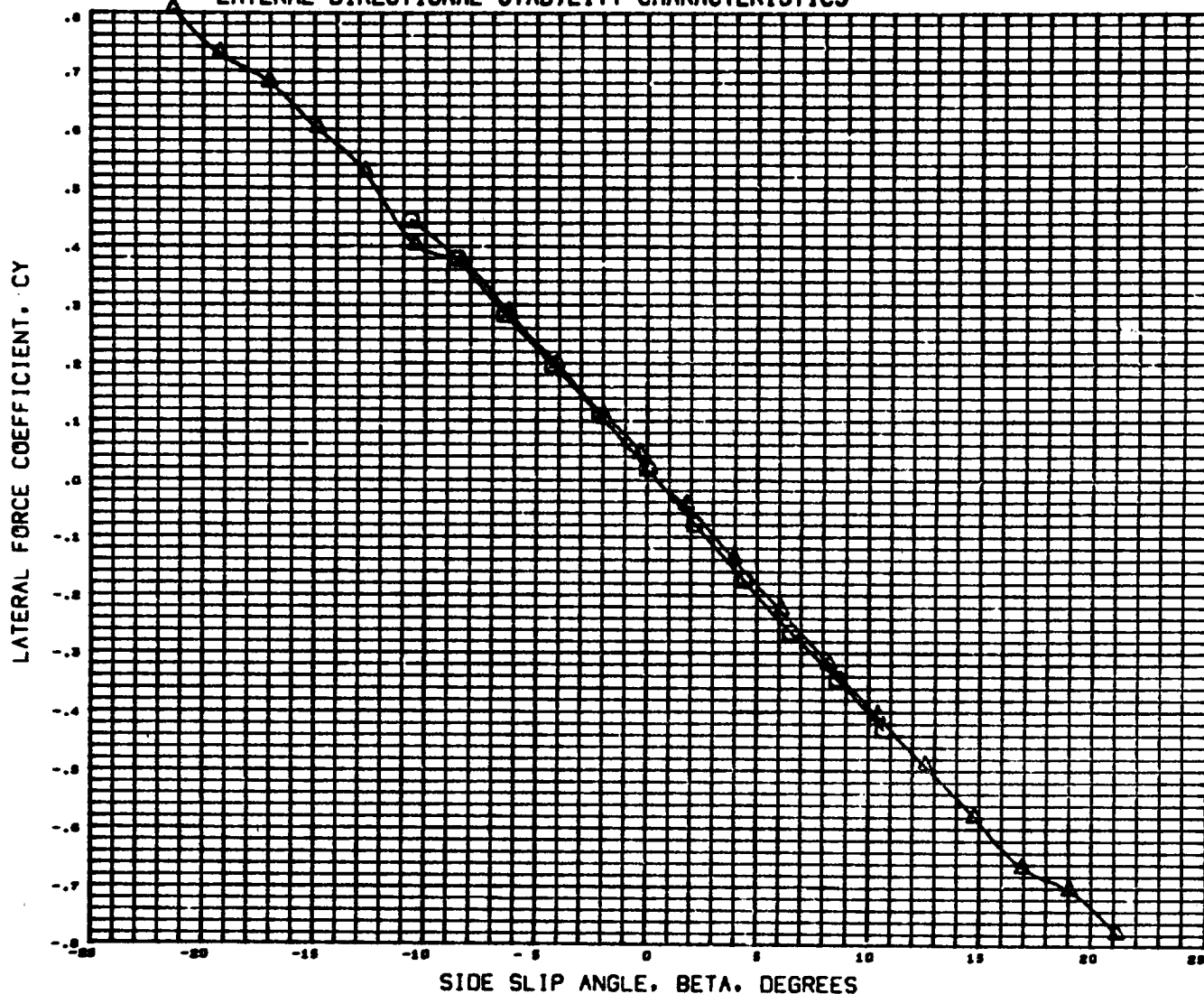
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3418F) M492-MSFC- AR11981-1 MODEL B2WS011
 (E3418F) M492-MSFC AR11981-1 MODEL B2WSY1011
 (E3418F) M492-MSFC AR11981-1 MODEL B2WSV2011
 (E3418H) DATA NOT AVAILABLE FOR ALL CONDITIONS
 (E3418F) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000
0.000	0.000	0.000
15.500	0.000	9.000
0.000	0.000	10.000

REFERENCE INFORMATION	
SREF	4.6225 80. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

RACH 1.964

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



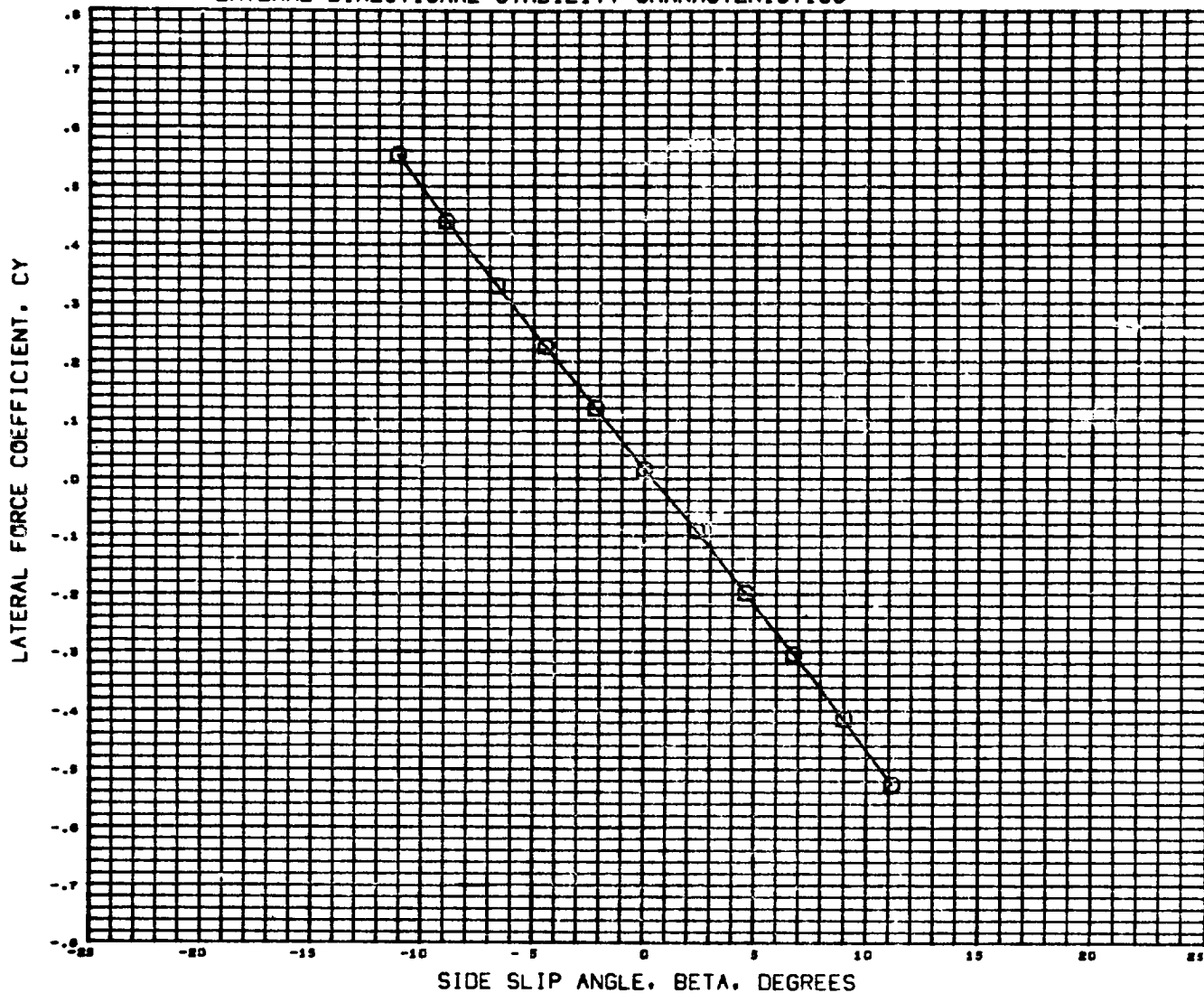
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E9415F) 8 N492-HSFC AR11001-1 MODEL SZWVZO11
 (E9415T) N492-HSFC AR11001-1 MODEL SZWVZO11

ALPHA ELEVTR AILRON
 0.000 0.000 0.000
 0.000 0.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.599

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



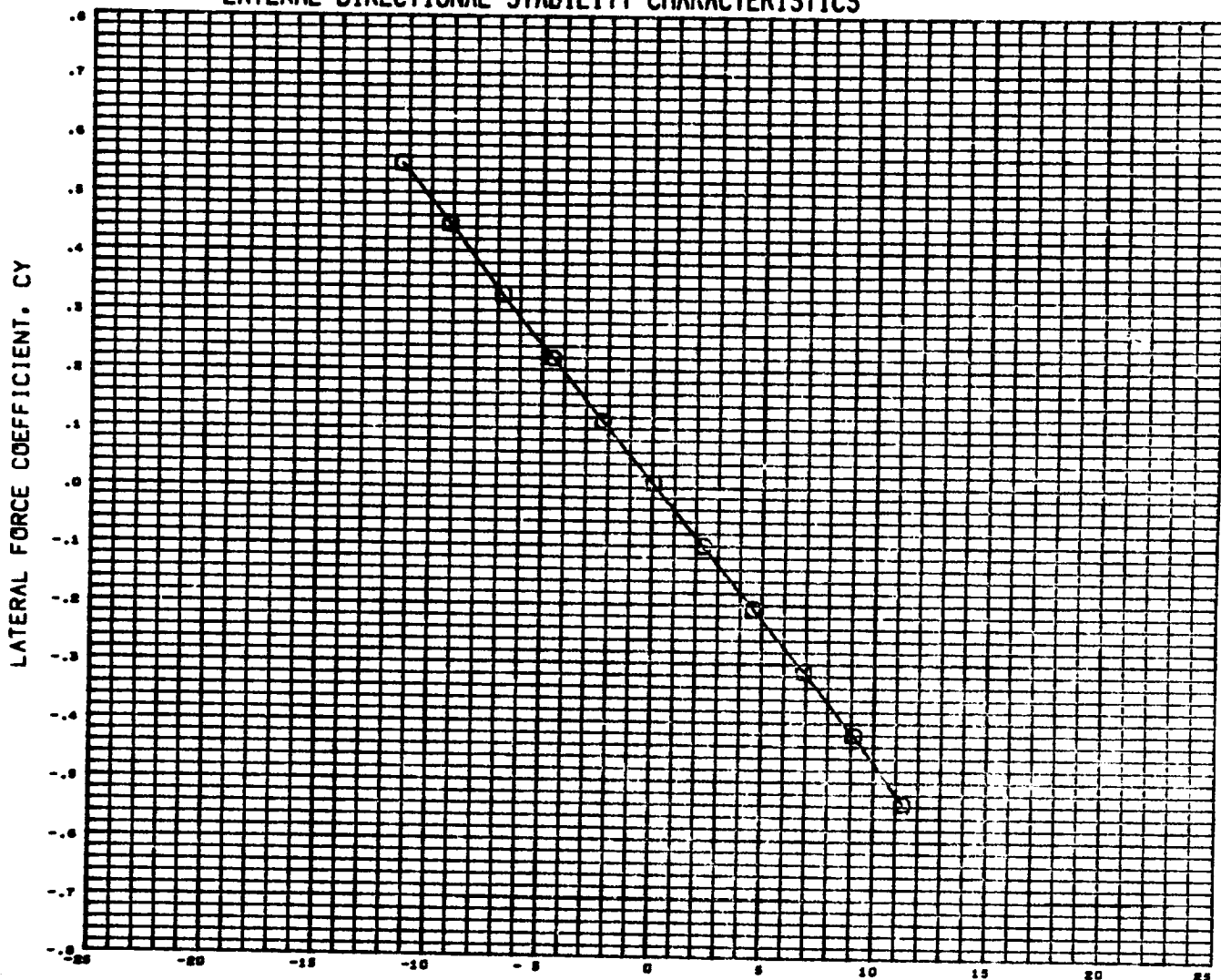
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E941SF) Q N492-HSFC AR11981-1 MODEL B2W6VZ011
 (E941ST) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA ELEVTR AILRON
 0.000 0.000 0.000
 0.000 0.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 80.1N
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



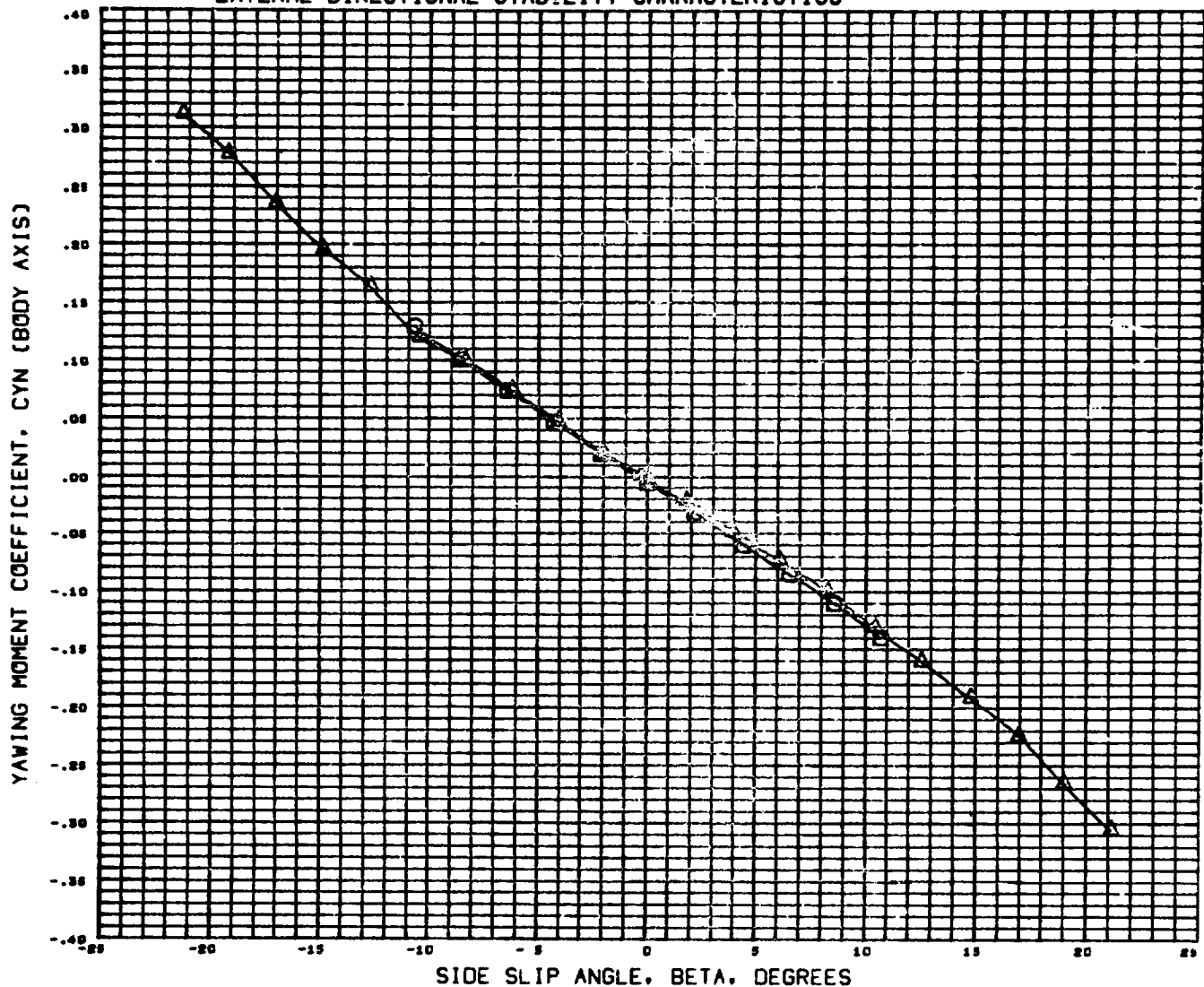
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3418F) Q N492-MSFC AR11981-1 MODEL B2M4V2011
 (E3418T) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	4.4225	36. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.060

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

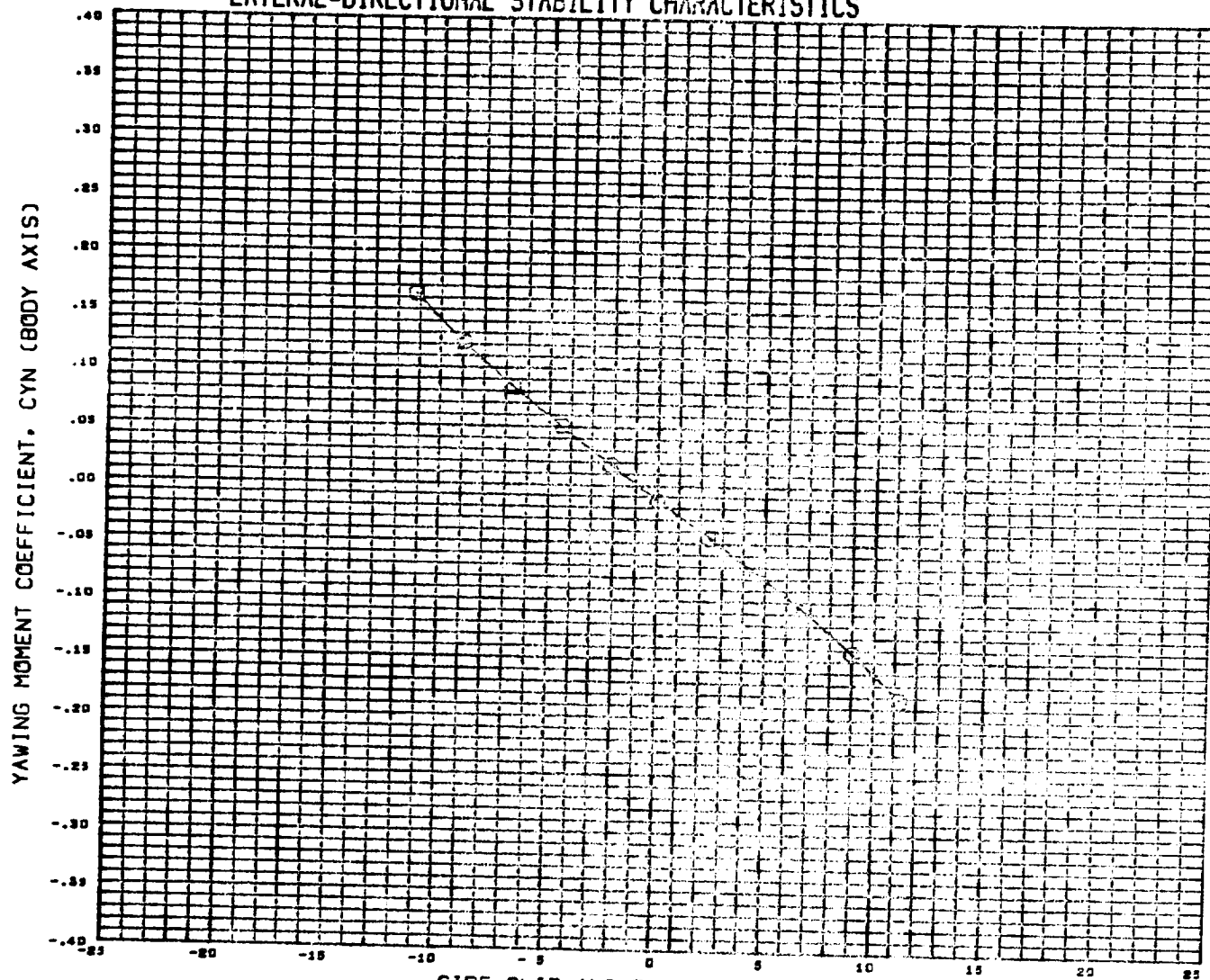


DATA SET SYMBOL	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON
(E3413F)		H49Z-NBFC AR11981-1 MODEL	0.000	0.000	0.000
(E3413T)		H49Z-NBFC AR11981-1 MODEL	0.000	0.000	0.000

REFERENCE INFORMATION		
BREF	4.6225	sq. in.
LREF	4.3000	in.
BREF	4.3000	in.
XMRP	2.4000	in.
YMRP	0.0000	in.
ZMRP	0.0000	in.
SCALE	0.0025	

MACH 0.599

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



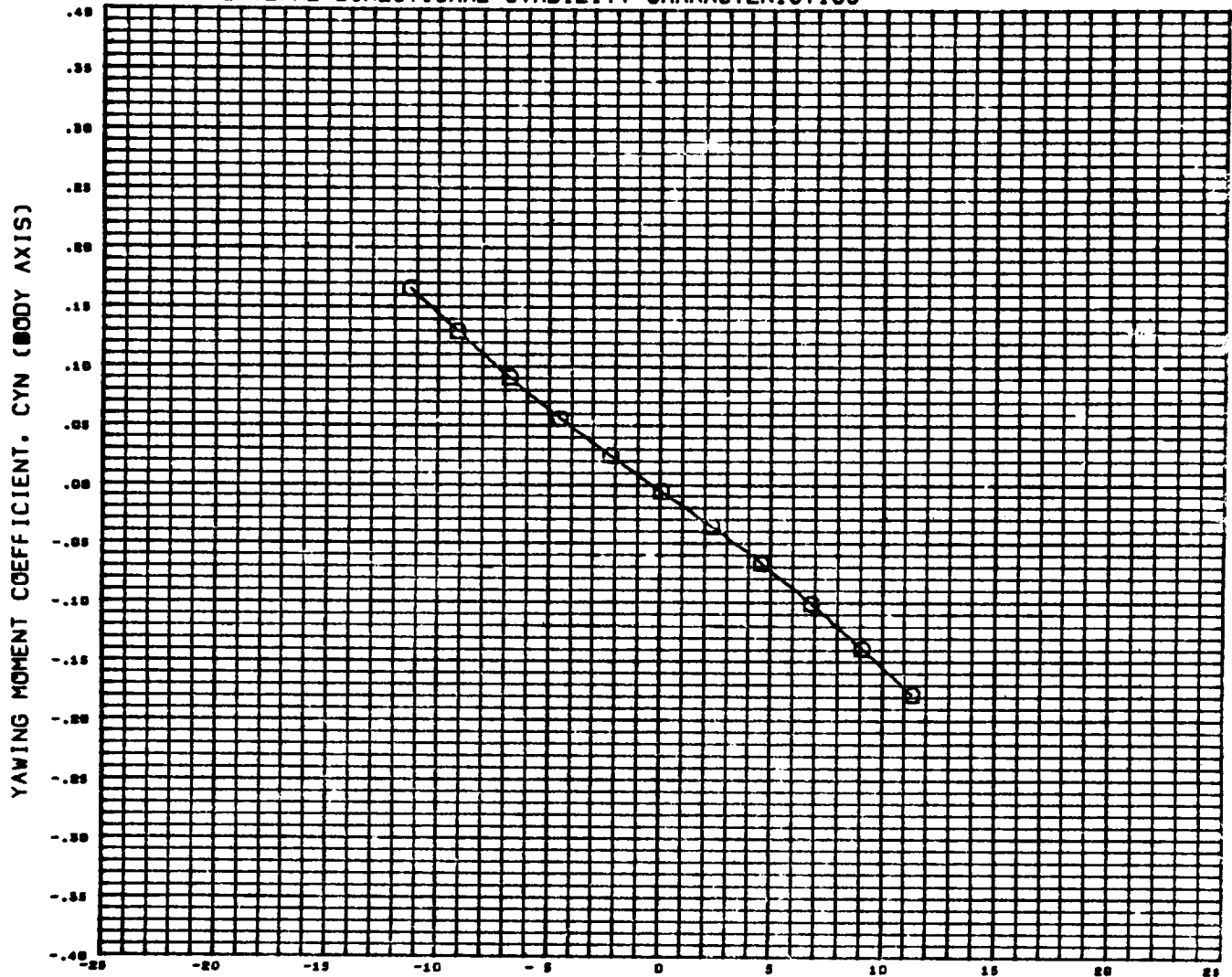
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3418F) Q M492-M37C AR11981-1 MODEL B2W6V2011
 (E3418T) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

NACH 1.208

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

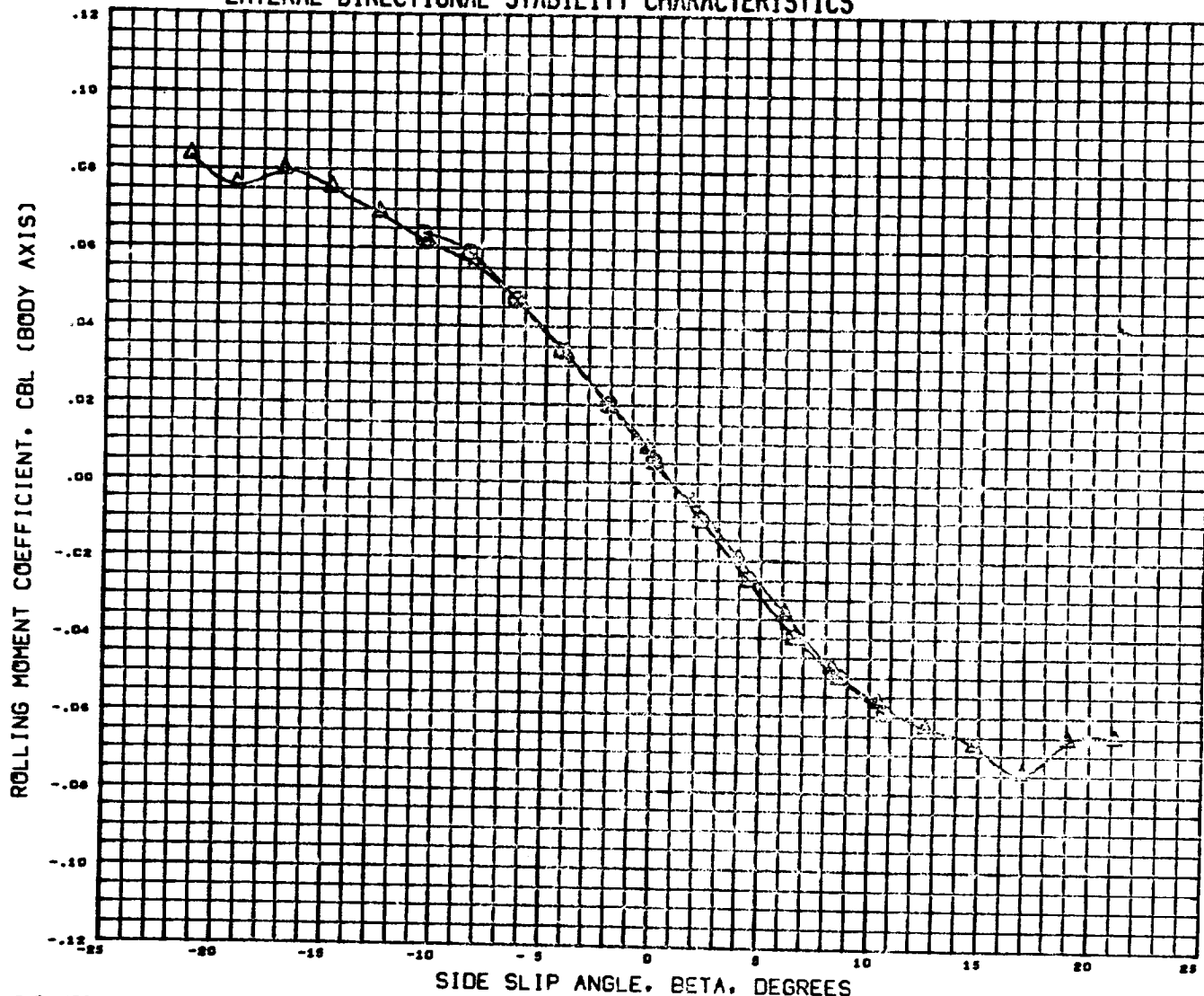


DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA ELEVTR AILRON
 (E3415F) M492-HSFC AR11981-1 MODEL B2W6V2011 0.000 0.000 0.000
 (E3415T) DATA NOT AVAILABLE FOR ALL CONDITIONS 0.000 0.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

NACH 1.980

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



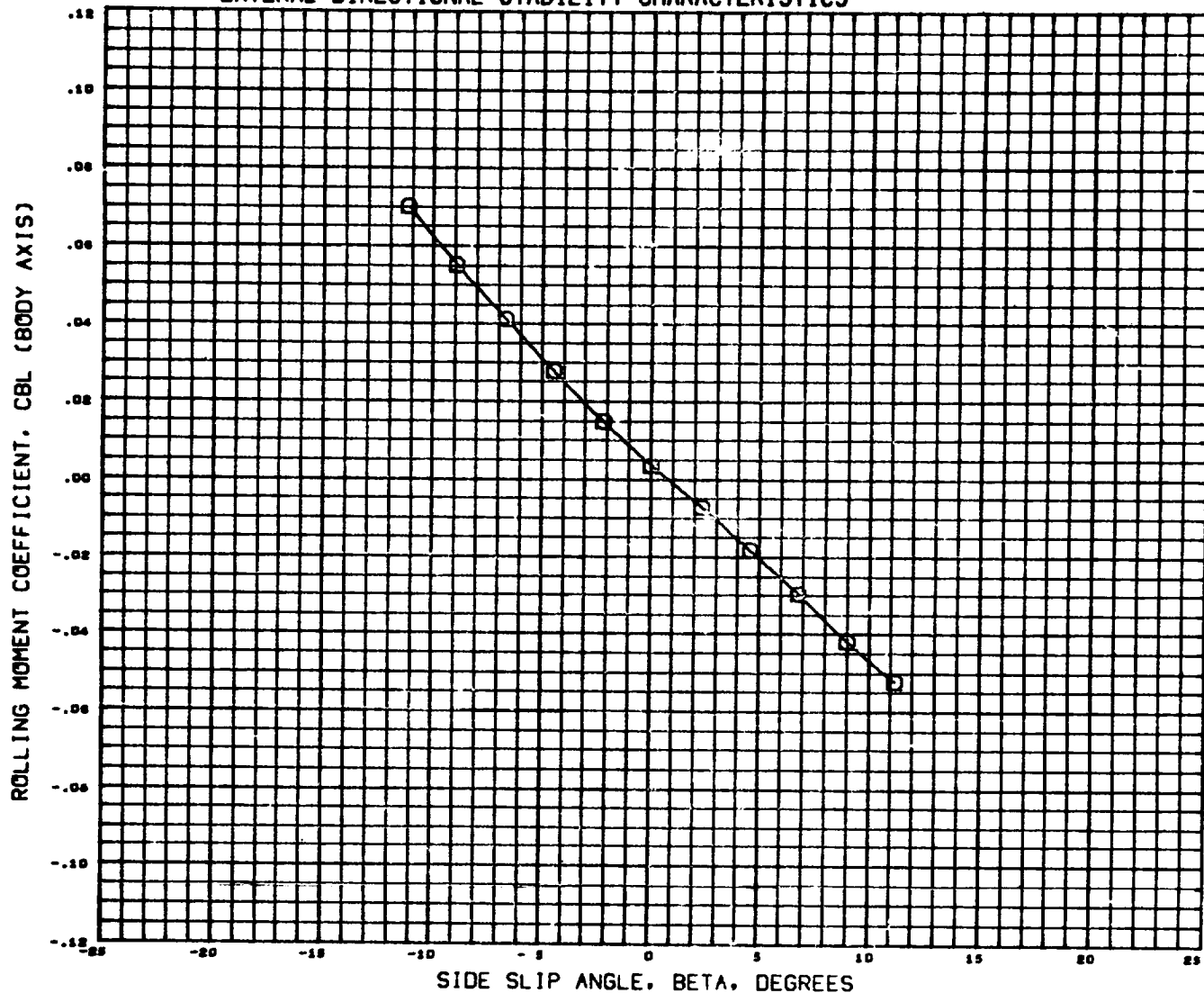
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3419F) M492-MSFC AR1198I-1 MODEL B2W6V2011
 (E3419T) M492-MSFC AR1198I-1 MODEL B2W6V2011

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION		
SREF	4.6225	38. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 0.999

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



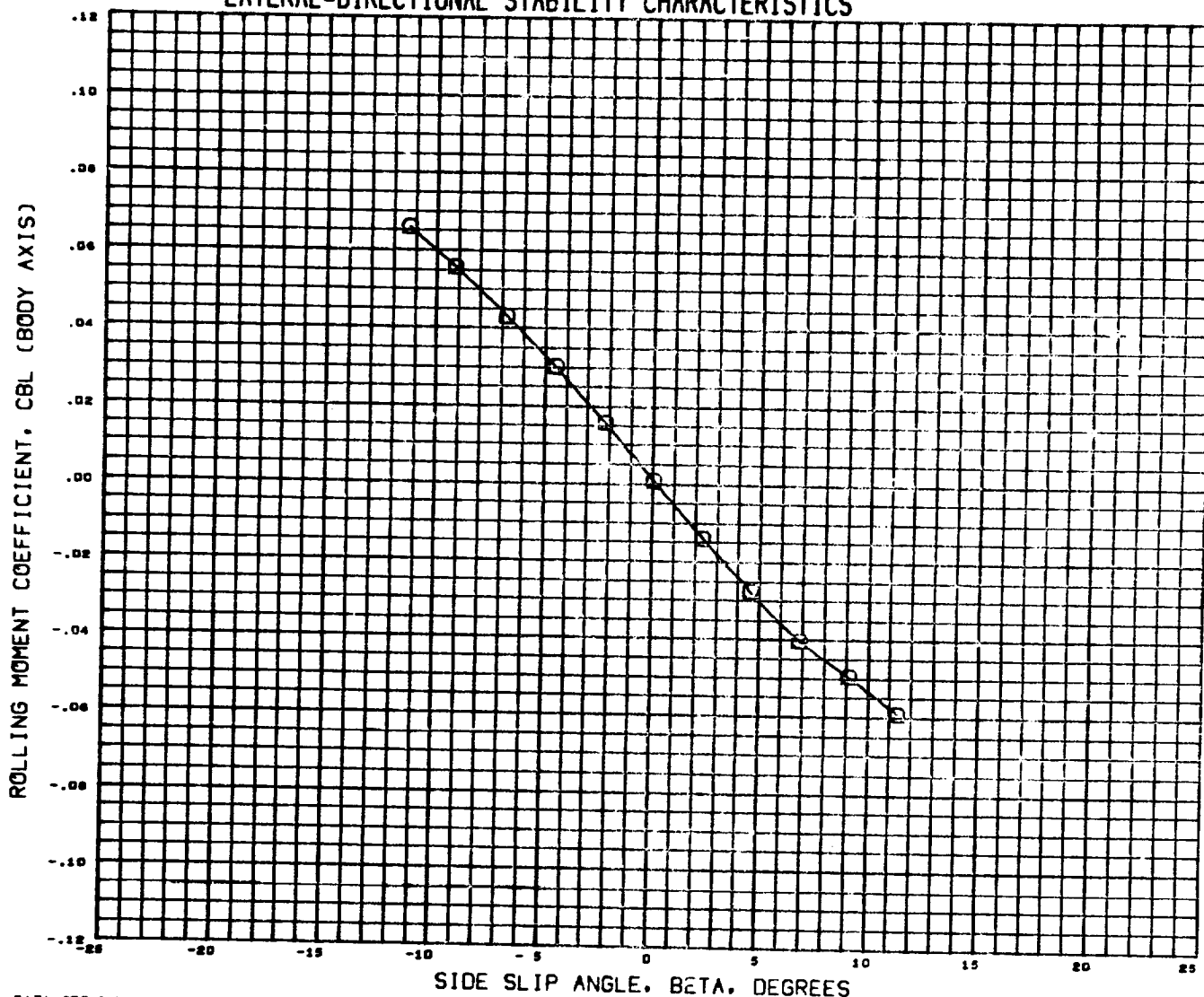
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3419F)  M492-NSFC AR11991-1 MODEL BW5V2011
 (E3419T)  DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000



REFERENCE INFORMATION		
SREF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

NACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E341SF)  M492-HSFC AR11981-1 MODEL B2W6V2011
 (E341ST)  DATA NOT AVAILABLE FOR ALL CONDITIONS

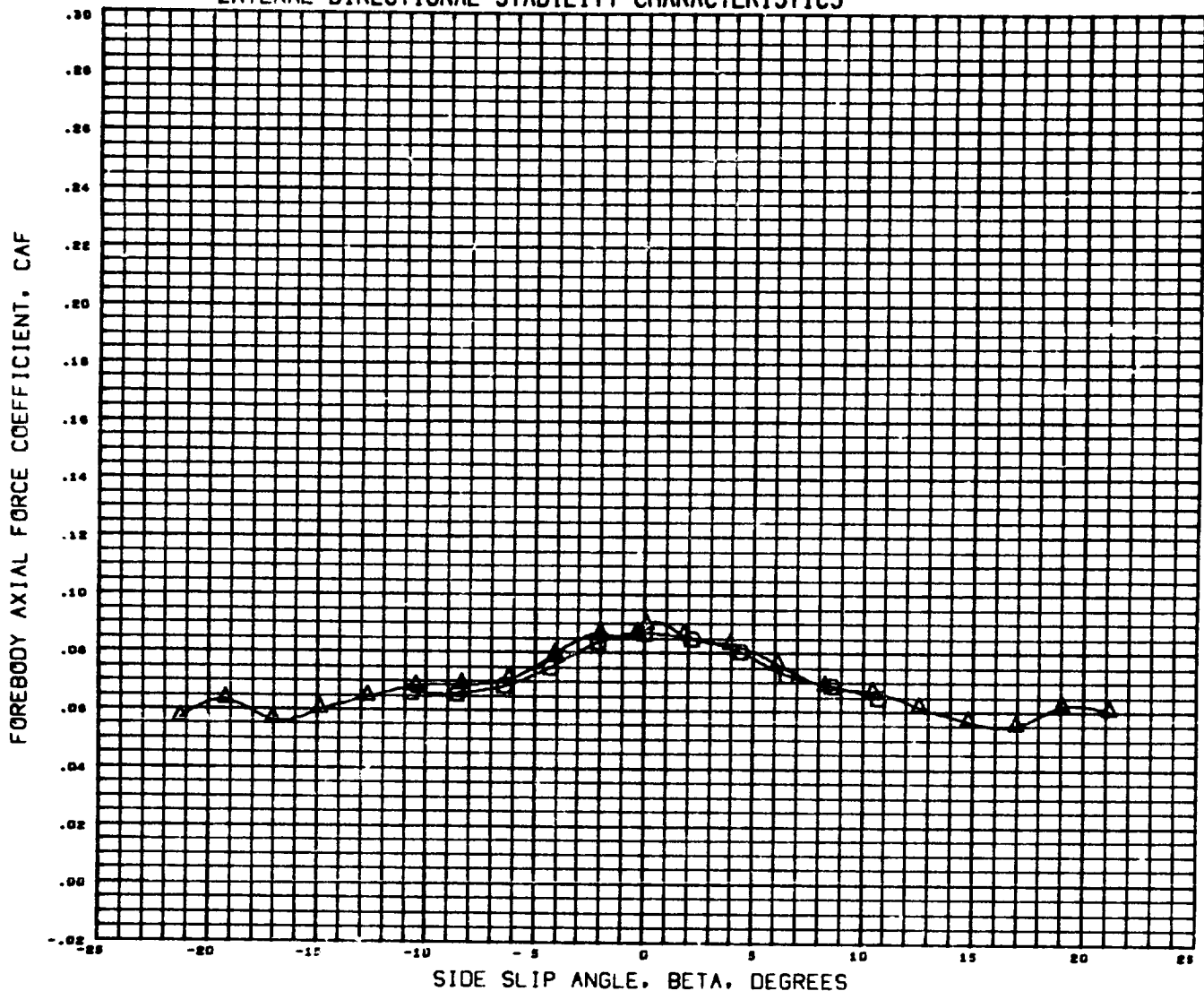
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION

SREF	4.6225	56. IN.
REF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.960

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



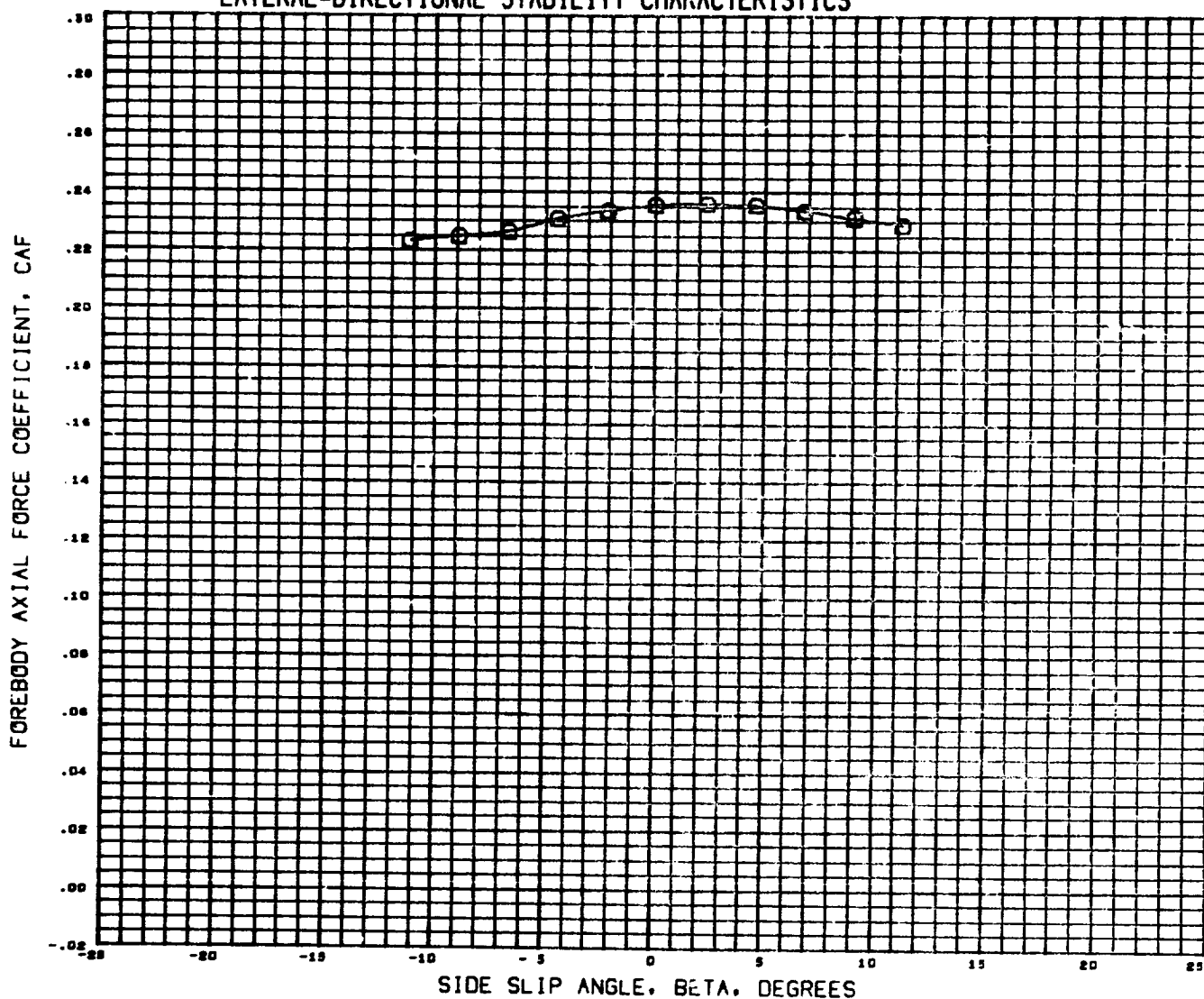
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3415F) M492-NSFC AR11901-1 MODEL B2M6V2011
 (E3415T) M492-NSFC AR11901-1 MODEL B2M6V2011

ALPHA ELEVTR AILRON
 0.000 0.000 0.000
 0.000 0.000 0.000

REFERENCE INFORMATION
 LREF 4.9225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.599

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3415F) M492-NSFC AR11981-1 MODEL 82W6V2011
 (E3415T) DATA NOT AVAILABLE FOR ALL CONDITIONS

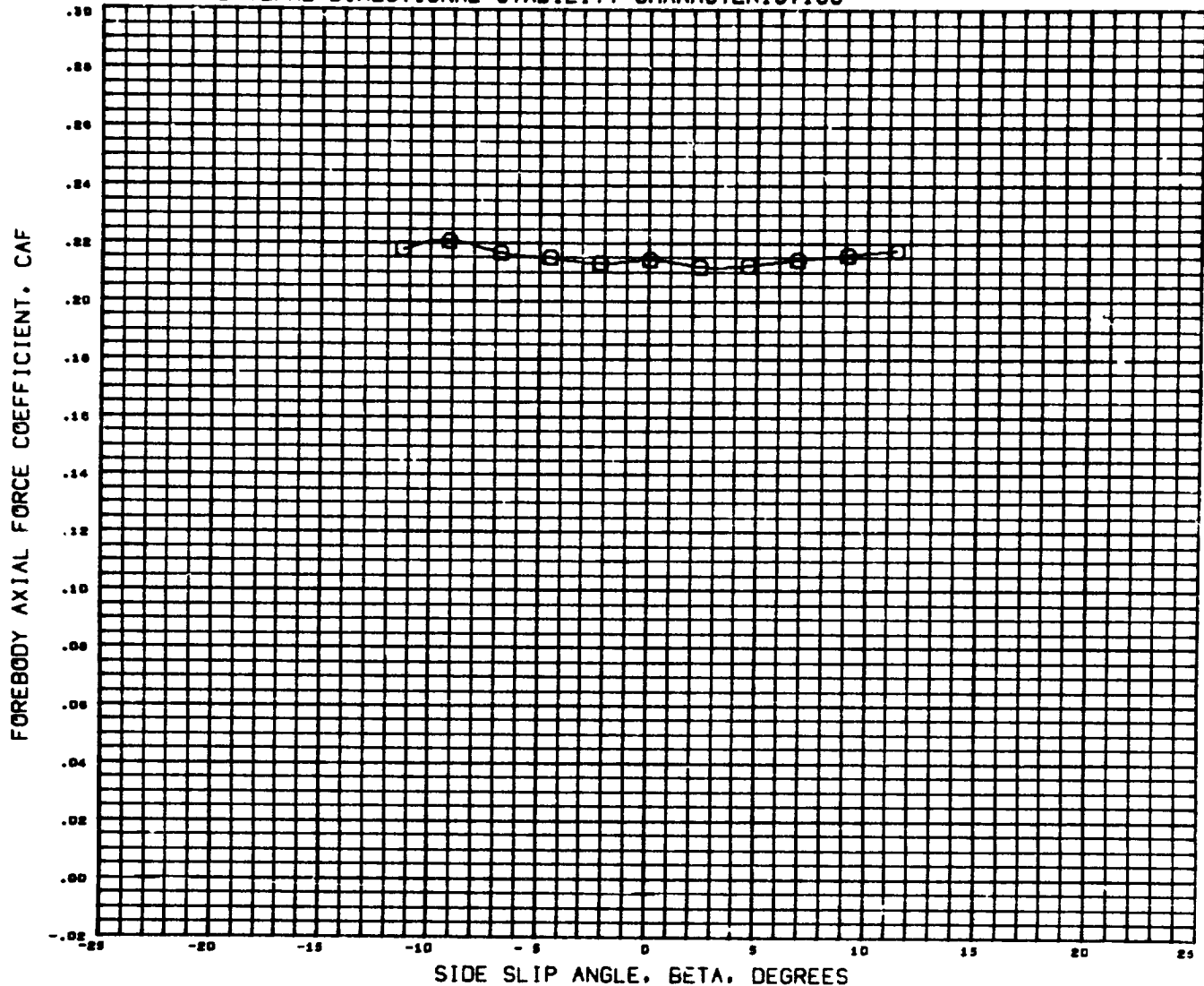
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION

SALT	4.6225	Sq. IN.
ALF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



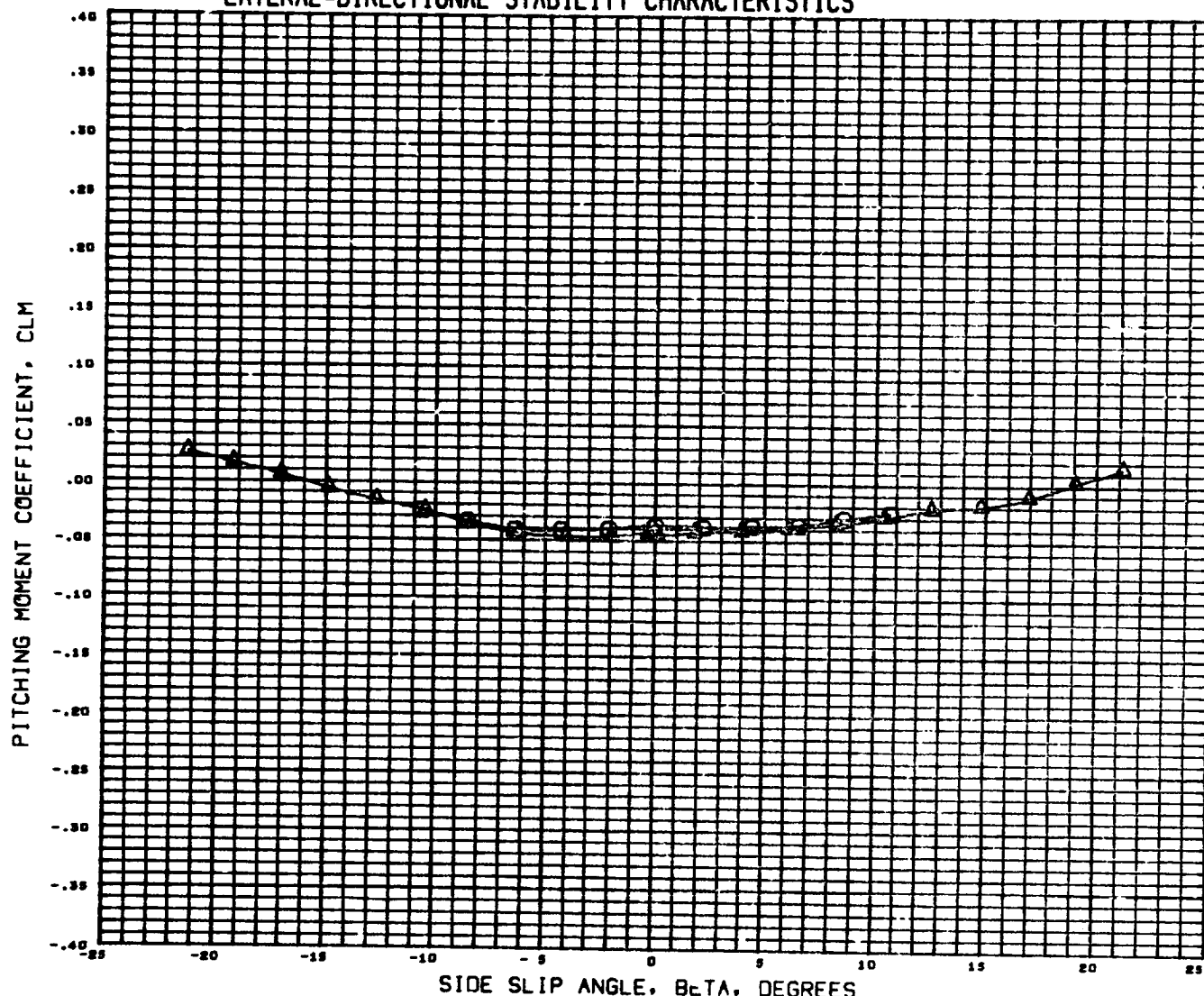
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E341SF)  M492-MSFC AR1981-1 MODEL B2W6V2011
 (E341ST) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION		
REF	4.6225	30. IN.
REF	4.3000	IN.
REF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.930

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3415F) Q M492-HBFC AR11981-1 MODEL
 (E3415T) Q M492-HBFC AR11981-1 MODEL

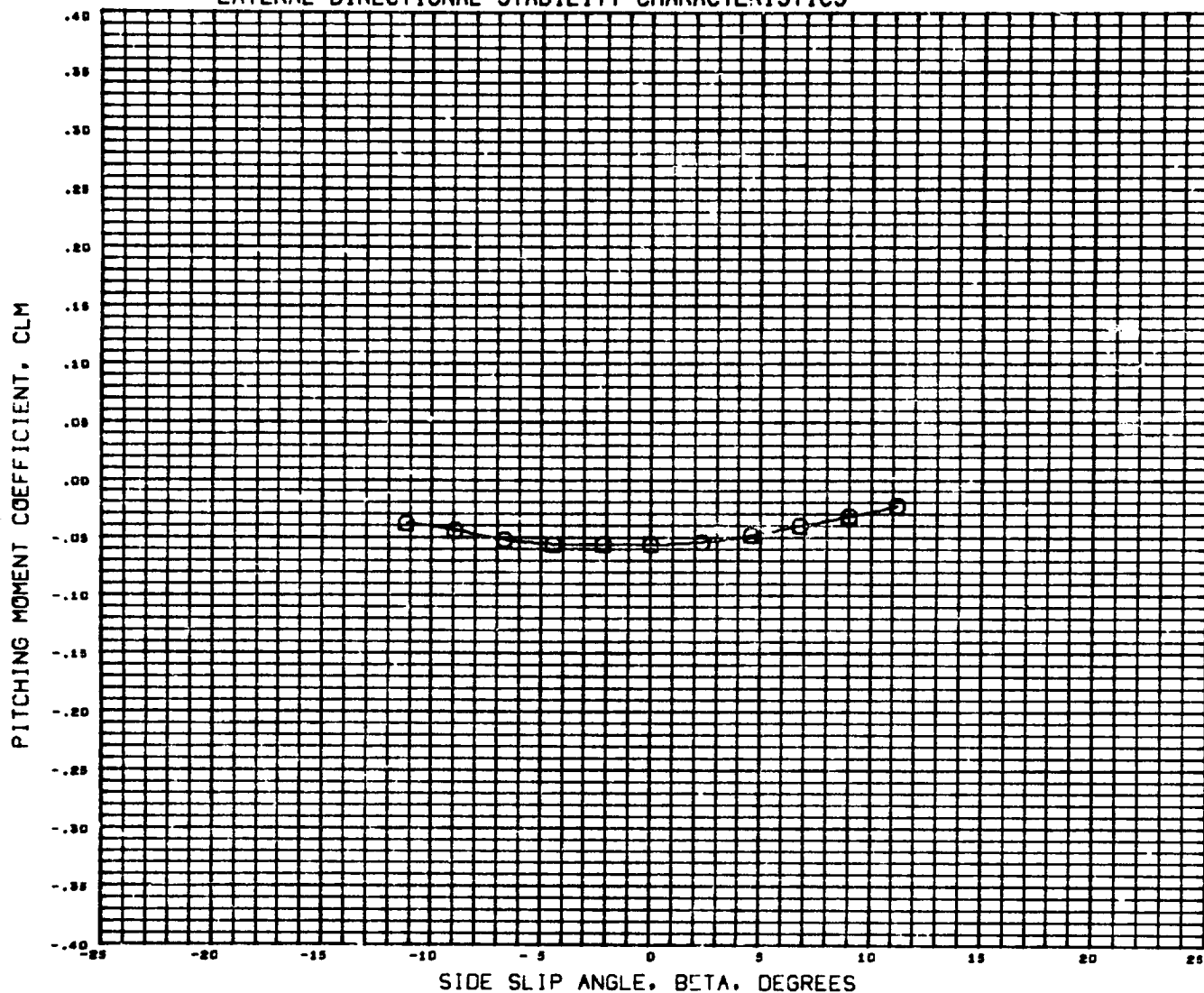
SIDE SLIP ANGLE, β , DEGREES

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION	
WREF	4.6225 SQ. IN.
LREF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 0.998

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3415F) M492-MSFC AR11921-1 MODEL 82W6V2C11
 (E3415T) DATA NOT AVAILABLE FOR ALL CONDITIONS

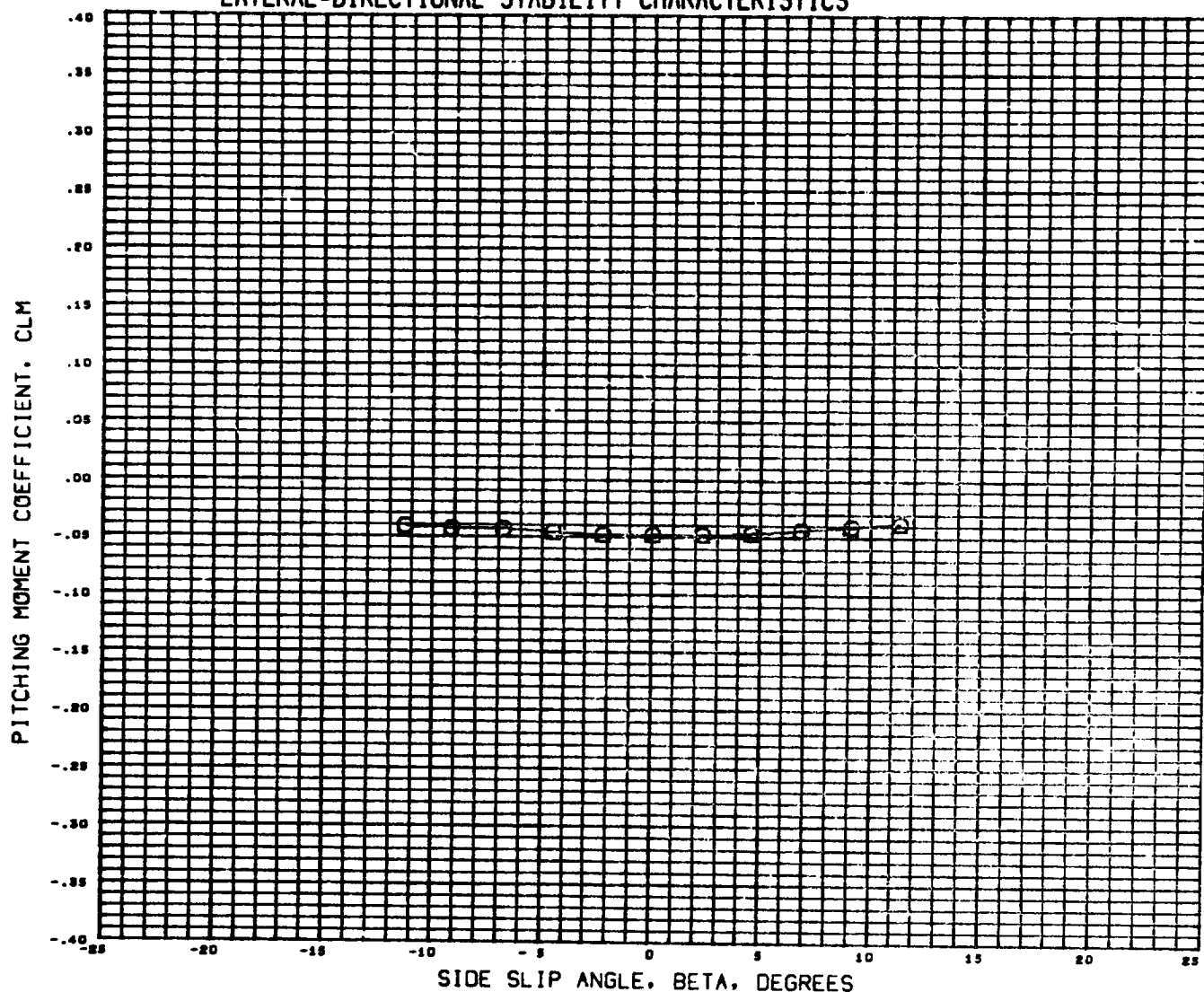
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION

REF	4.6225	59. IN.
REF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E341SF) M492-MSFC AR11961-1 MODEL 82W6V2011
 (E341ST) DATA NOT AVAILABLE FOR ALL CONDITIONS

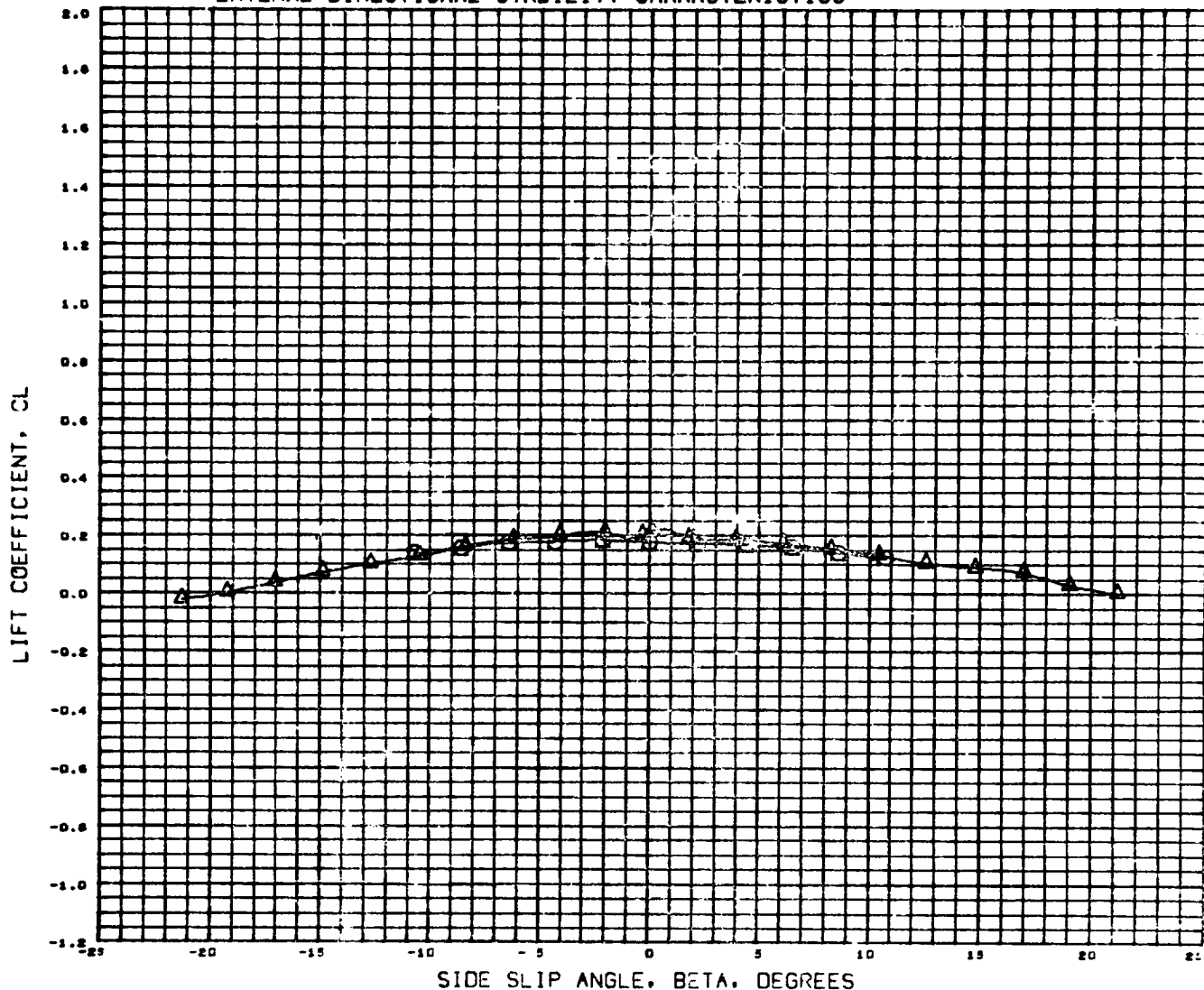
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION

SALT	4.6225	50. IN.
SLCF	4.3000	IN.
BREF	4.3000	IN.
YMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.960

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

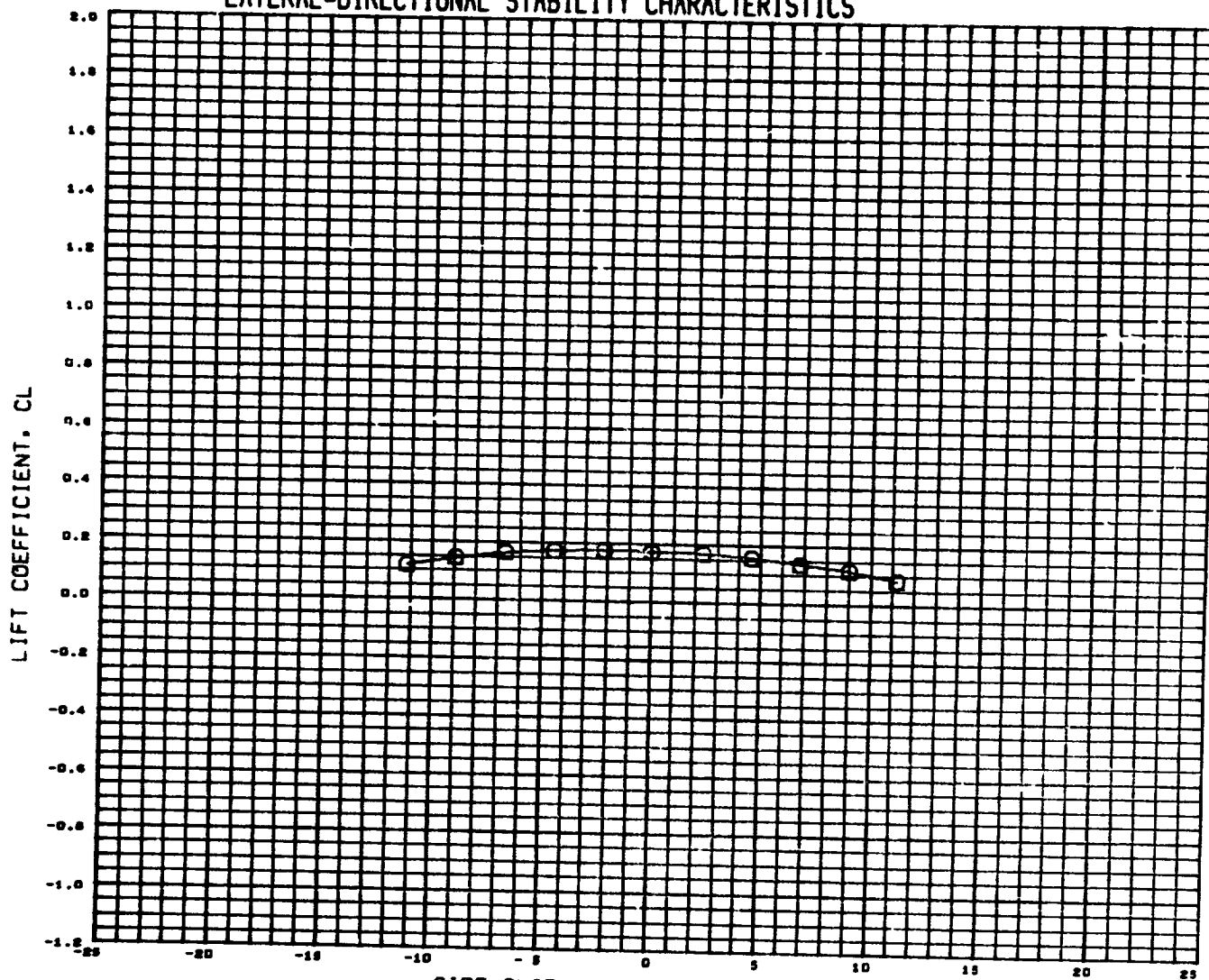


DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTR	AILRON
(E9415F)	M492-MSFC AR11981-1 MODEL	0.000	0.000	0.000
(E9415T)	M492-MSFC AR11981-1 MODEL	0.000	0.000	0.000

REFERENCE INFORMATION	
WREF	4.6225 56.1N.
REF	4.3000 IN.
BREF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 0.599

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



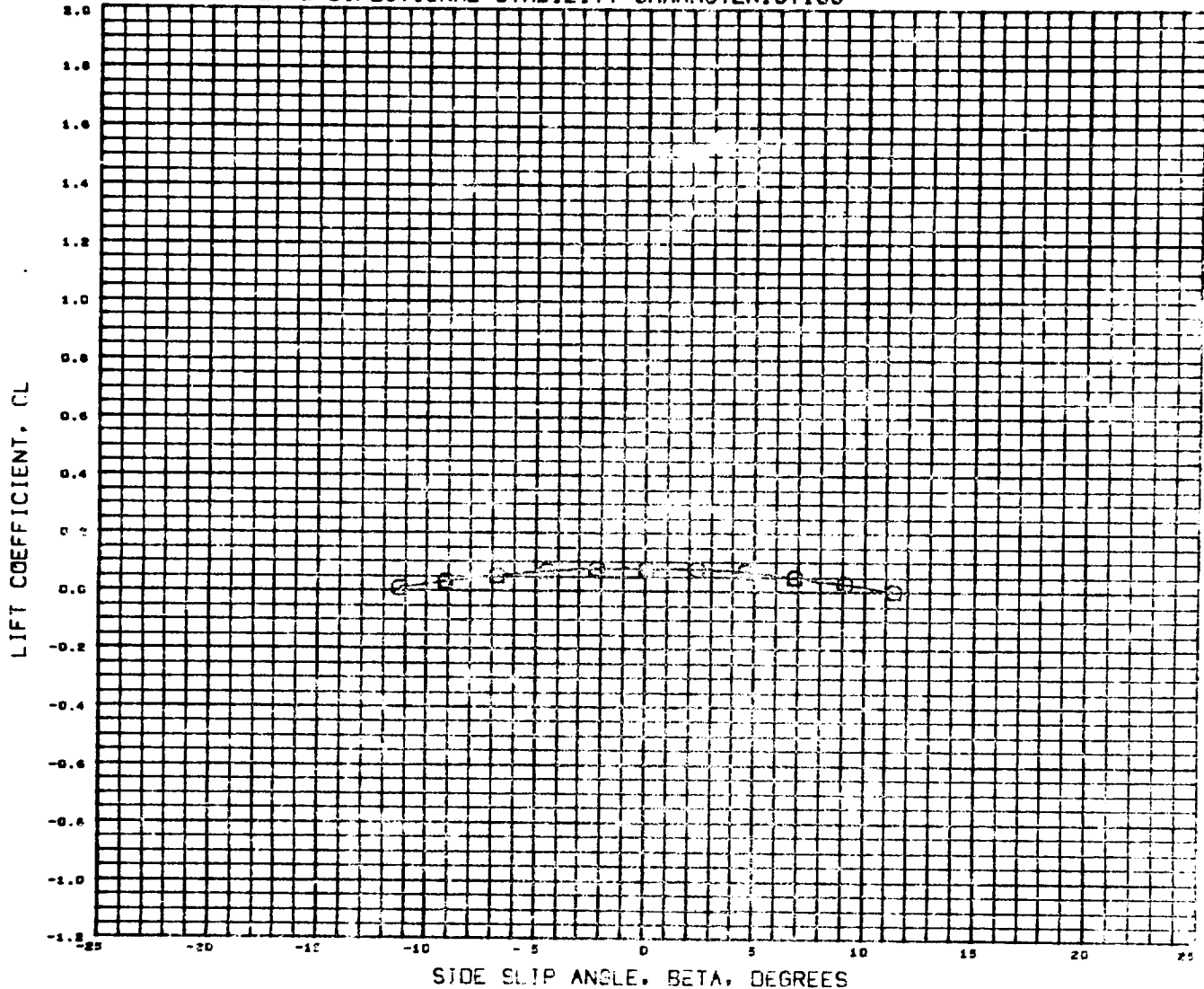
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3419F) M492-MSFC AR1190I-1 MODEL 82W6V2011
 (E3419T) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION	
SCALE	4.6225 IN.
REF	4.3000 IN.
REF	4.3000 IN.
XMRP	2.4000 IN.
YMRP	0.0000 IN.
ZMRP	0.0000 IN.
SCALE	0.0025

MACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



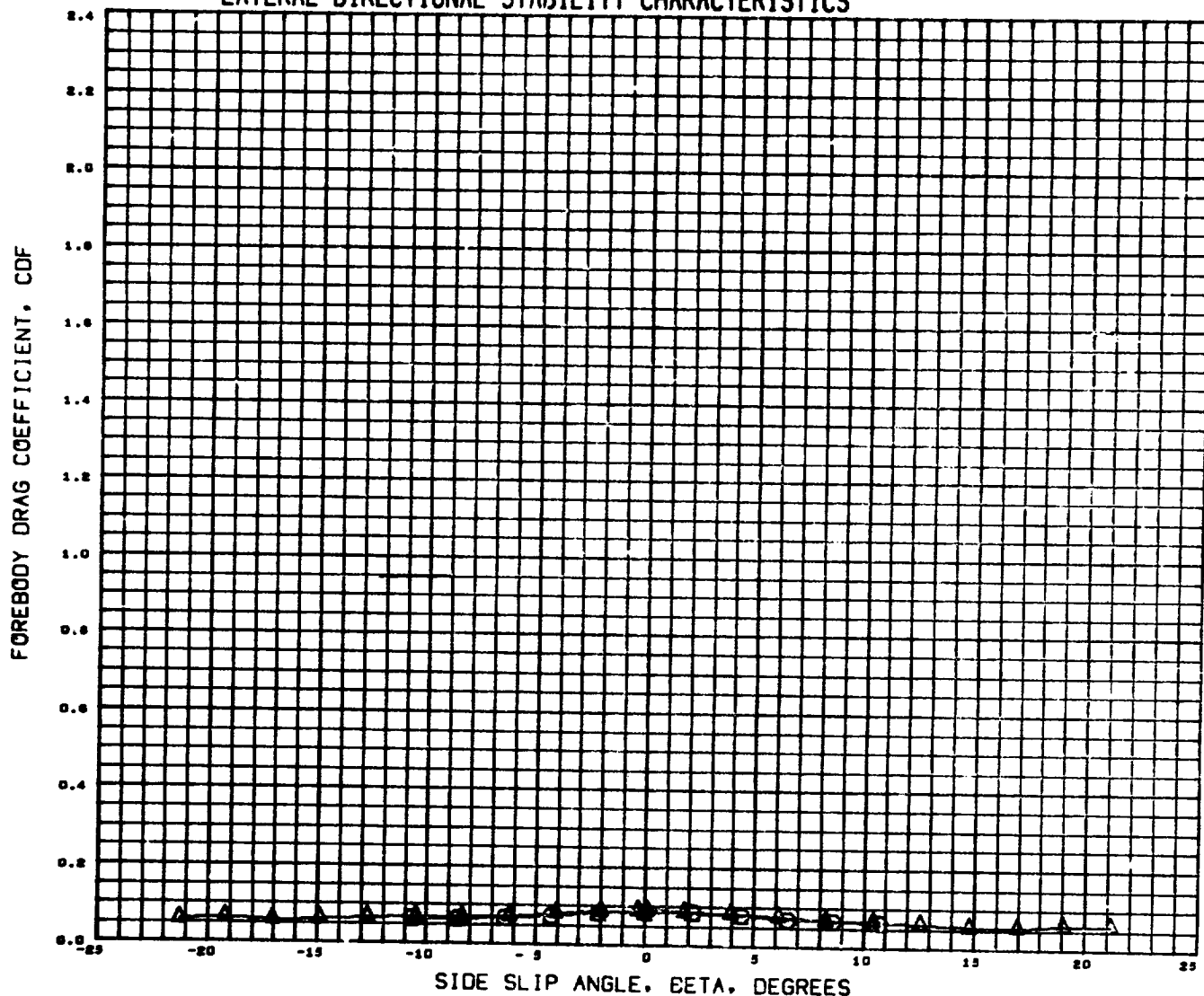
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E3415F) Q M492-MSFC ARI1981-1 MODEL B2WSV2011
 (E3415T) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA ELEVTR AILRON
 0.000 0.001 0.000
 0.000 0.000 0.000

REFERENCE INFORMATION
 SREF 4.6225 SG 11.1
 PREF 4.3000 IN
 HREF 4.3000 IN
 XREF 2.4000 IN
 YREF 0.0000 IN
 ZREF 0.0000 IN
 SCALE 0.0025

MACH 1.900

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E341SF) Q N492-NBFC AR1198I-1 MODEL
 (E341ST) N492-NBFC AR1198I-1 MODEL

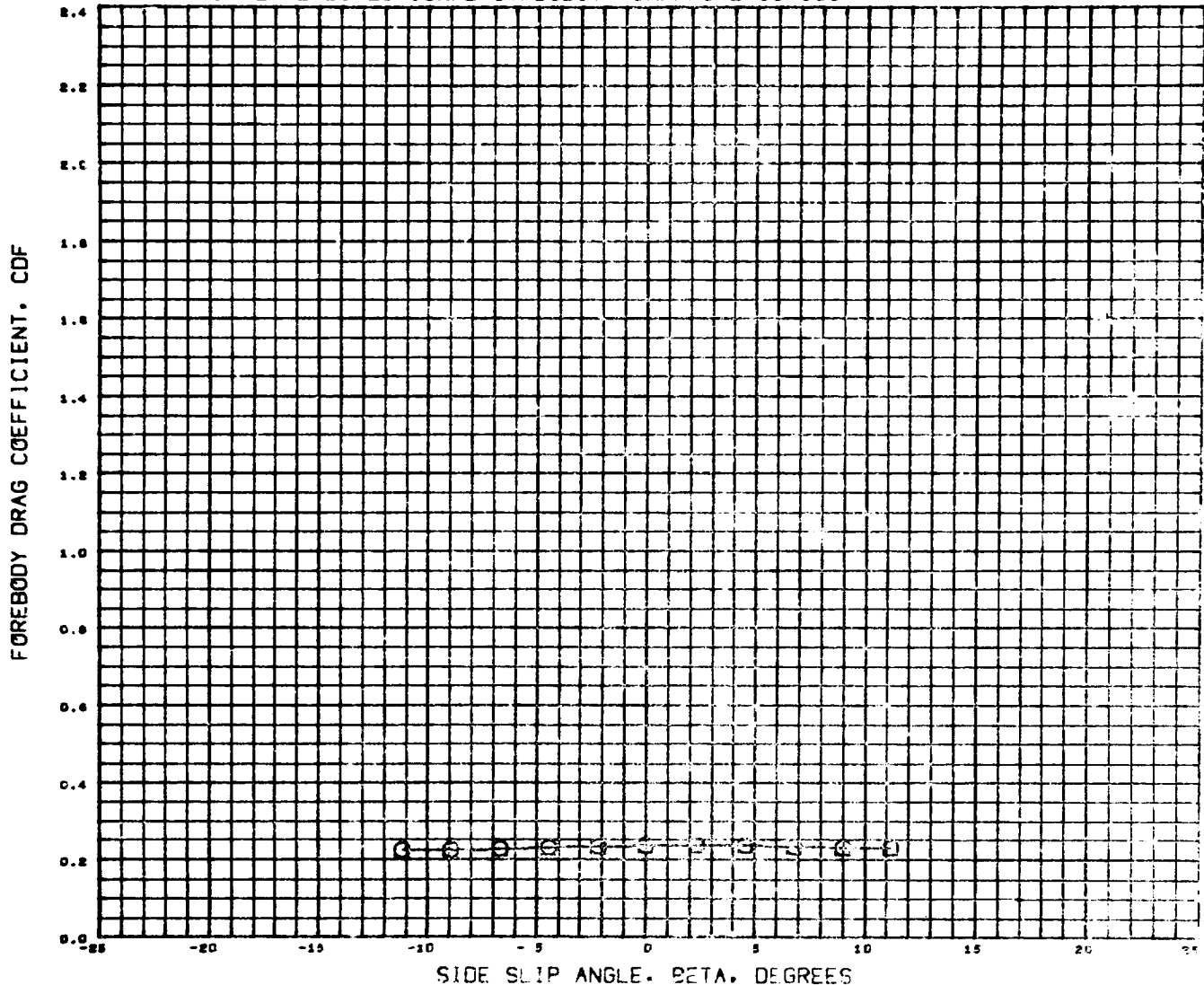
SIDE SLIP ANGLE, BETA, DEGREES

ALPHA ELEVTR AILRON
 0.000 0.000 0.000
 0.000 0.000 0.000

REFERENCE INFORMATION
 WET 6.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

MACH 0.599

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3415F) M492-MSFC AR11981-1 MODELS 82NR4P001
(E3415T) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA ELEVTR AXLRGA

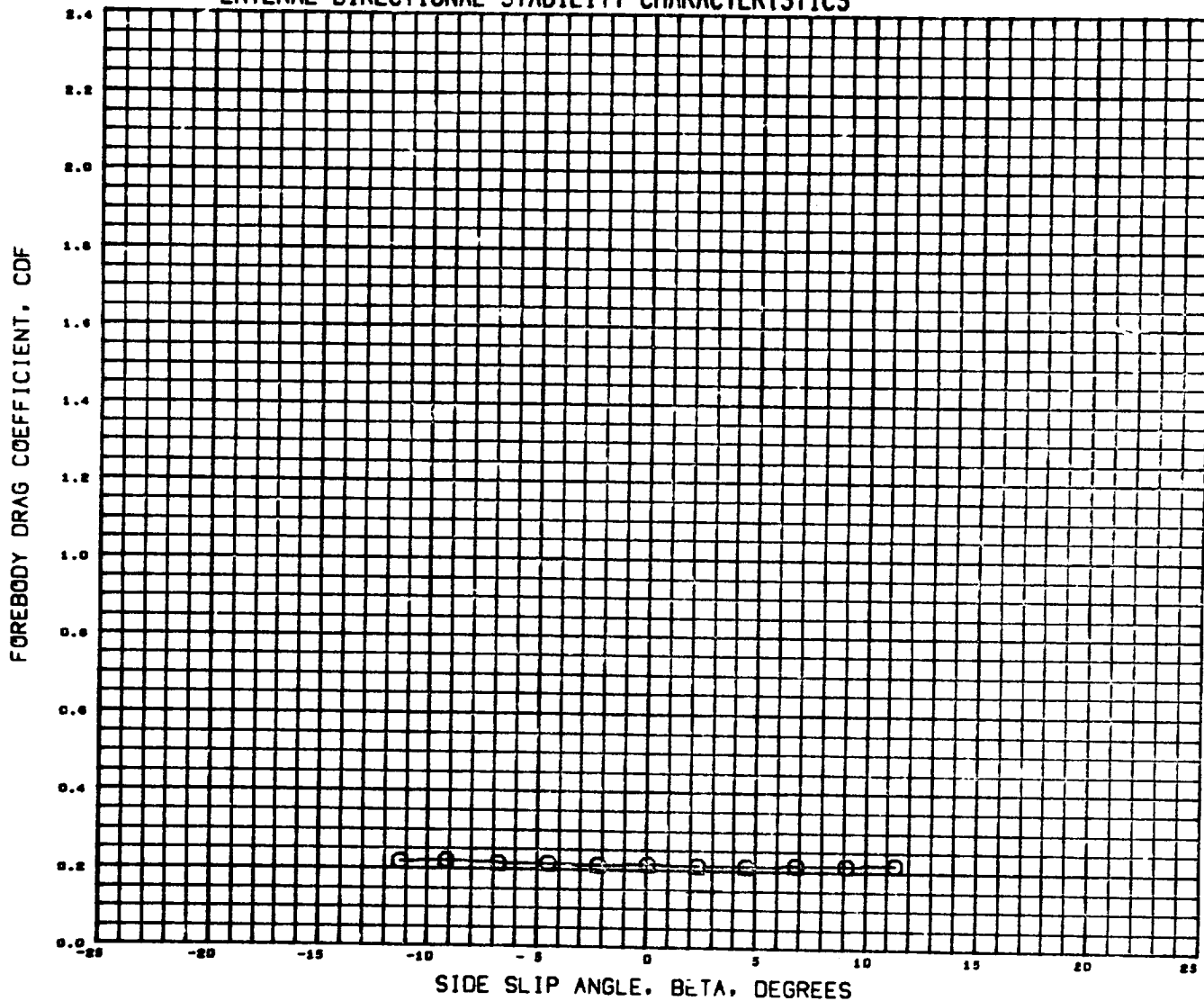
0.000 0.000 0.000
0.000 0.000 0.000

REFERENCE INFORMATION

REF 4.5225 SQ. IN.
REF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

NACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3418F) N492-NBFC AR11901-1 MODEL 32W8V2011
 (E3418T) DATA NOT AVAILABLE FOR ALL CONDITIONS

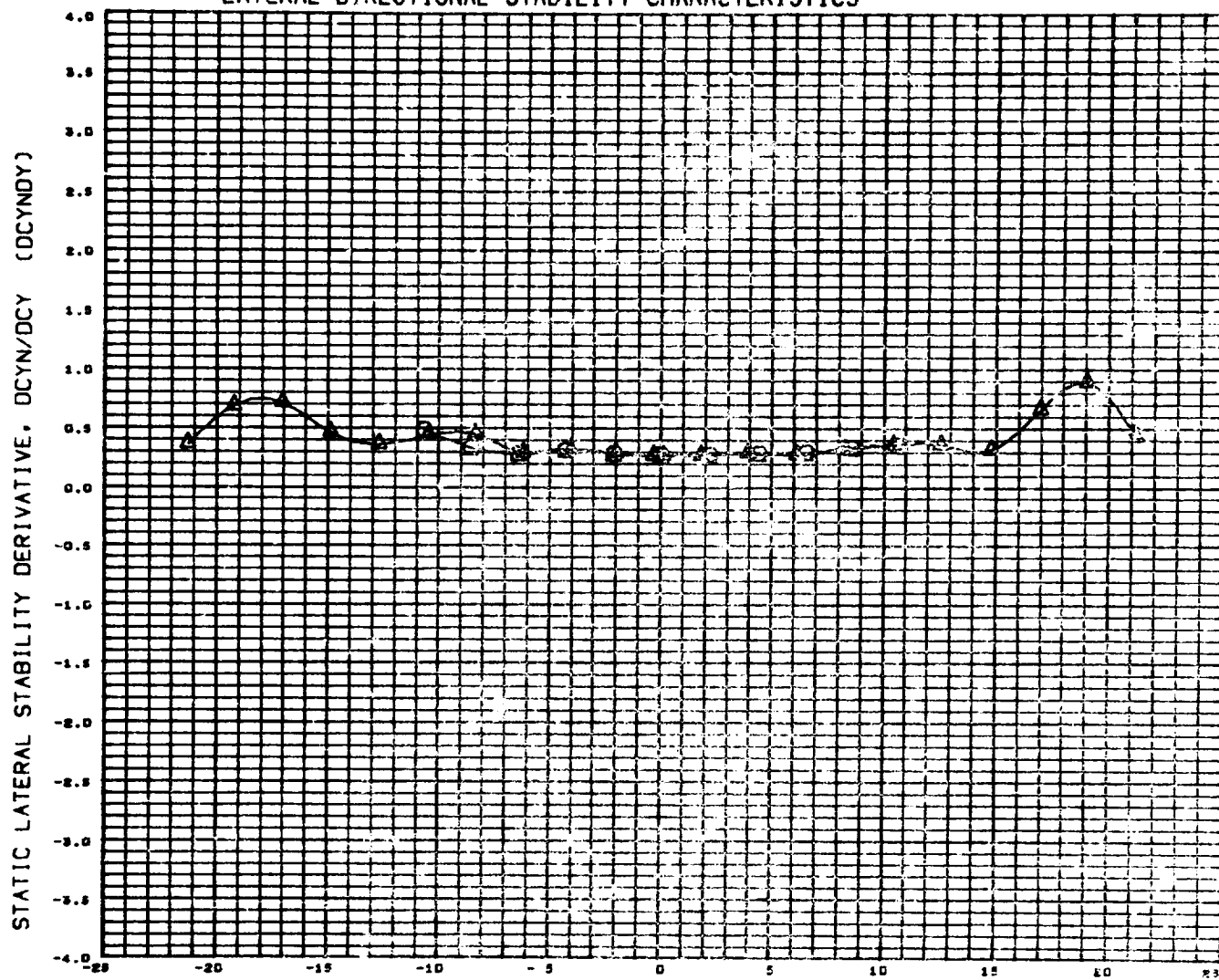
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION

SREF	4.6225	30. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.860

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION ALPHA ELEVTP AIRCRN

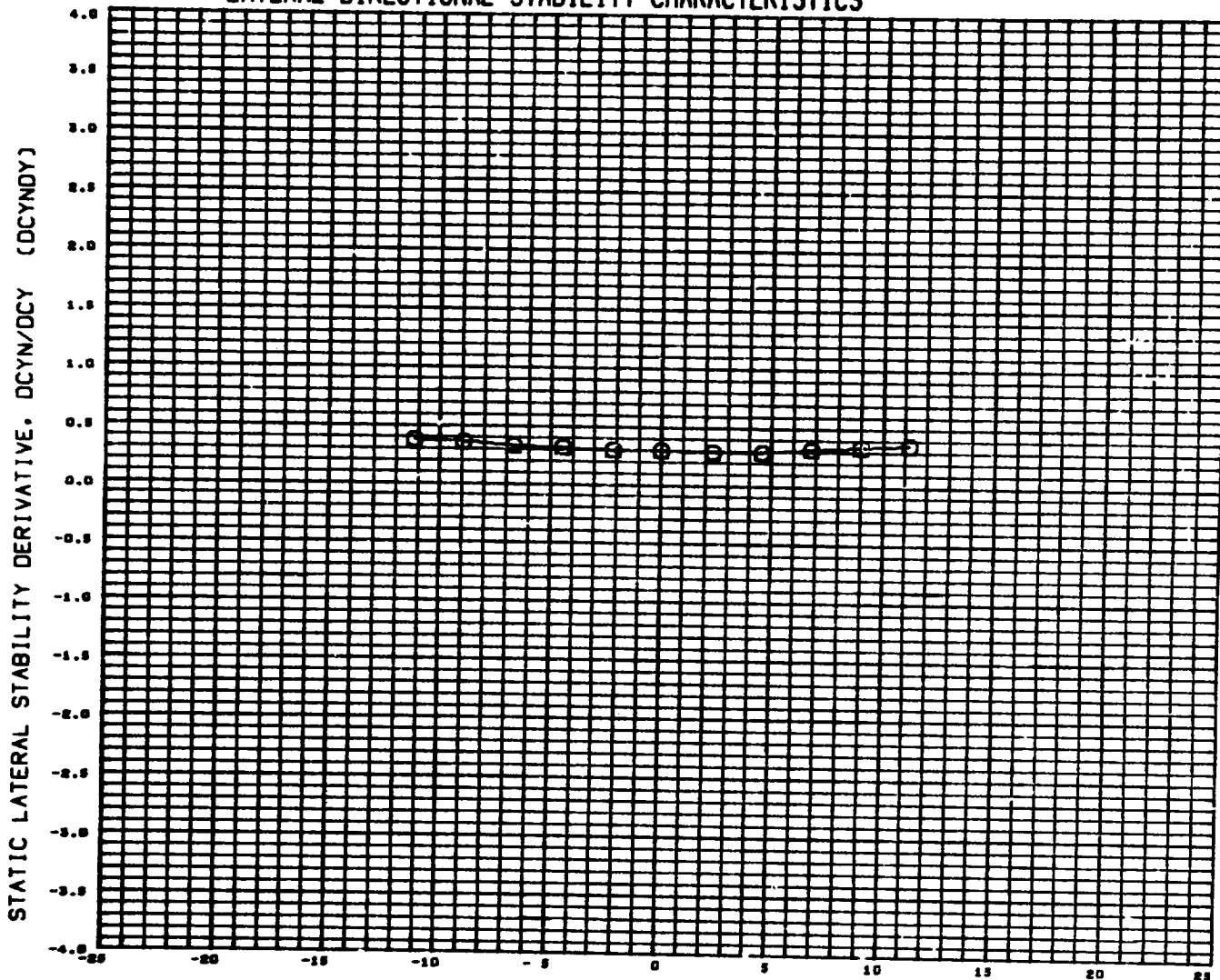
DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	ELEVTP	AIRCRN
(E3415F)	M492-MSFC AR11901-1	0.000	0.000	0.000
(E3415T)	M492-MSFC AR11901-1	0.000	0.000	0.000

REFERENCE INFORMATION

REF	4.6225	50.14
REF	4.3000	IN.
REF	4.3000	IN.
REF	2.4000	IN.
REF	0.0000	IN.
REF	0.0000	IN.
SCALE	0.0000	IN.

MACH 0.599

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(E3418F) N402-MSFC AR11001-1 MODEL B2W8V2011
 (E3418T) DATA NOT AVAILABLE FOR ALL CONDITIONS

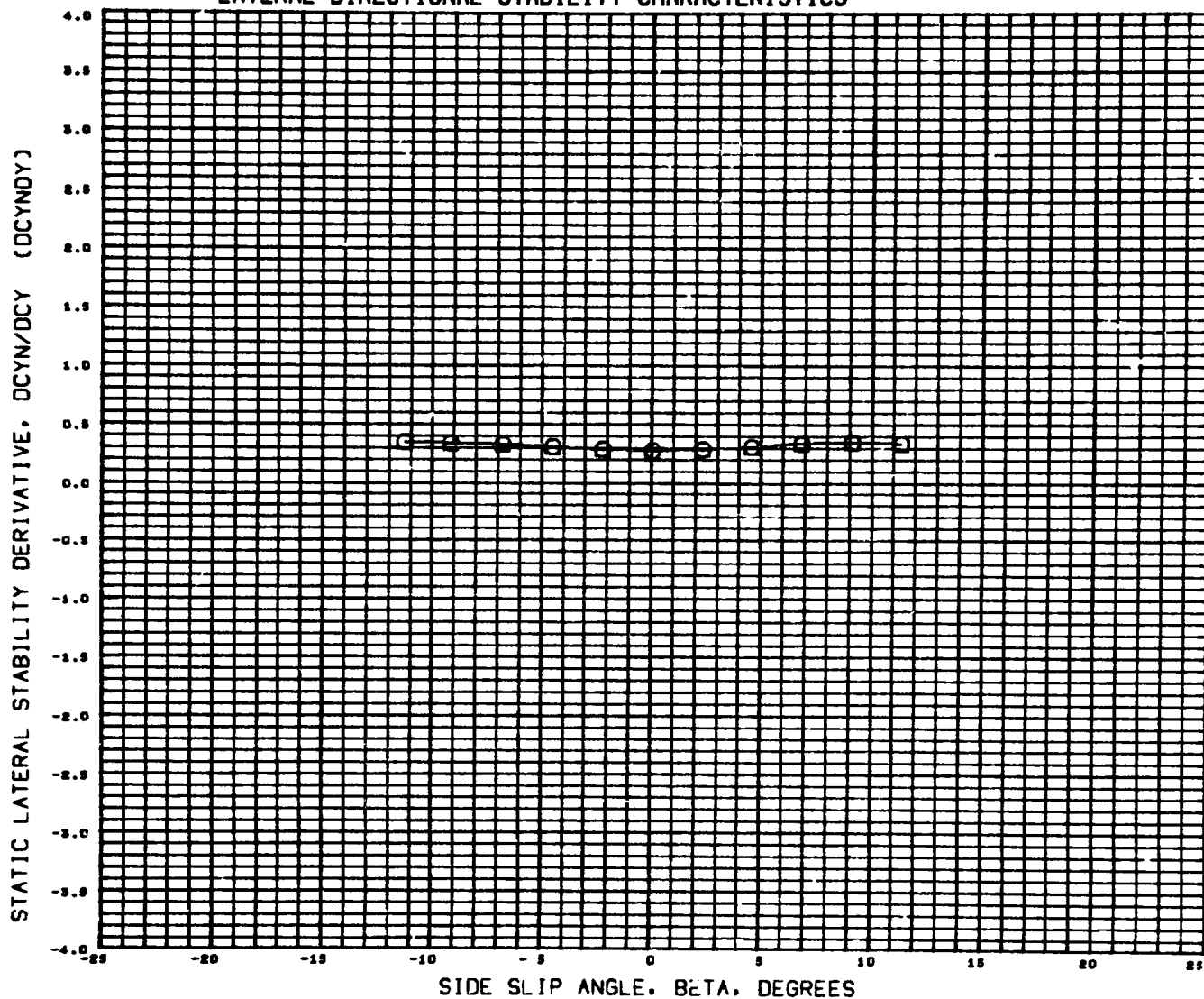
ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION

REF	4.6225	90 IN.
REF	4.3000	IN.
REF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.202

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



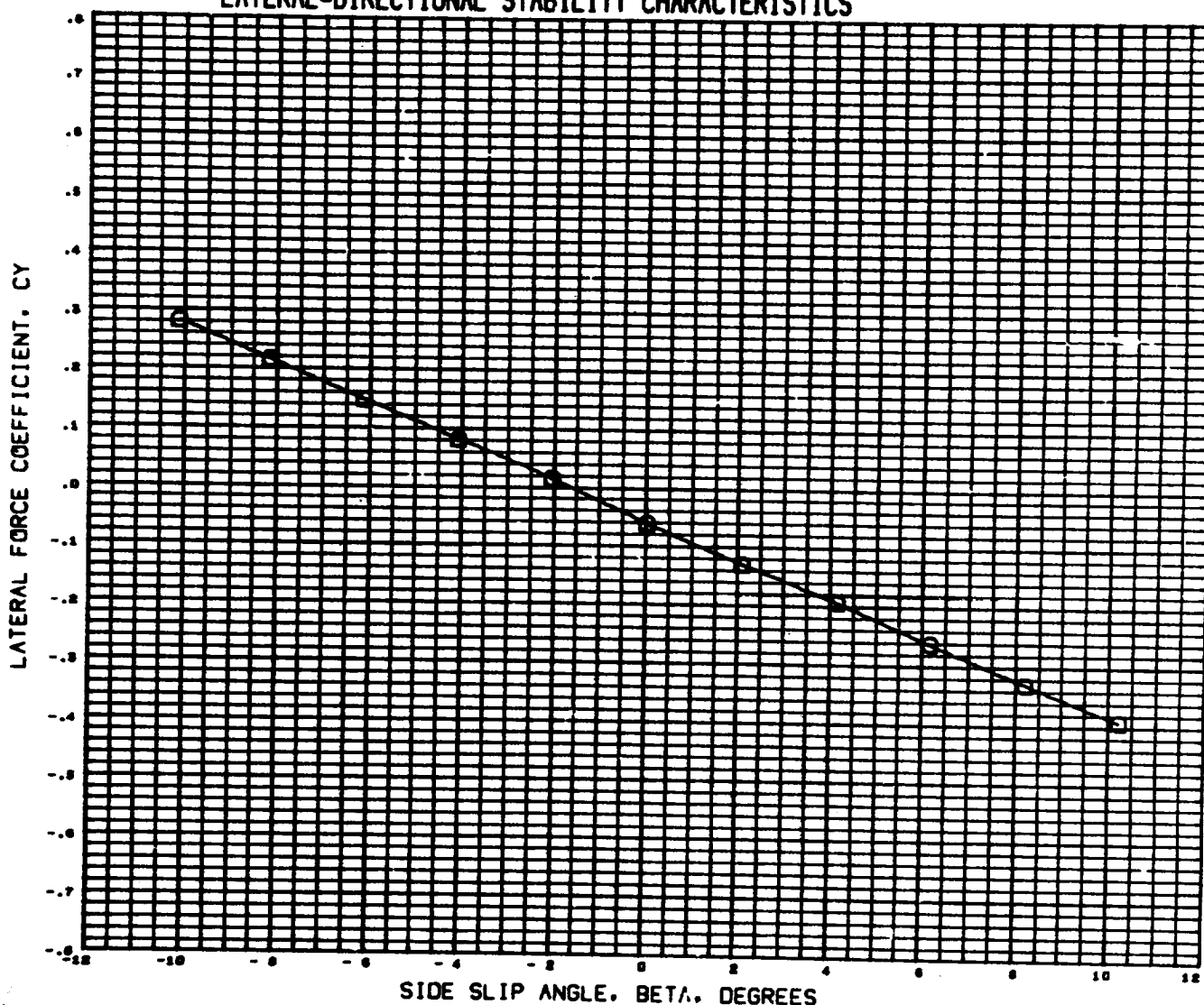
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (E9415F) Q M49E-HBFC AR11981-1 MODEL B2M6V2011
 (E9415T) DATA NOT AVAILABLE FOR ALL CONDITIONS

ALPHA	ELEVTR	AILRON
0.000	0.000	0.000
0.000	0.000	0.000

REFERENCE INFORMATION		
REF	4.6225	58. IN.
REF	4.3000	IN.
REF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

MACH 1.000

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



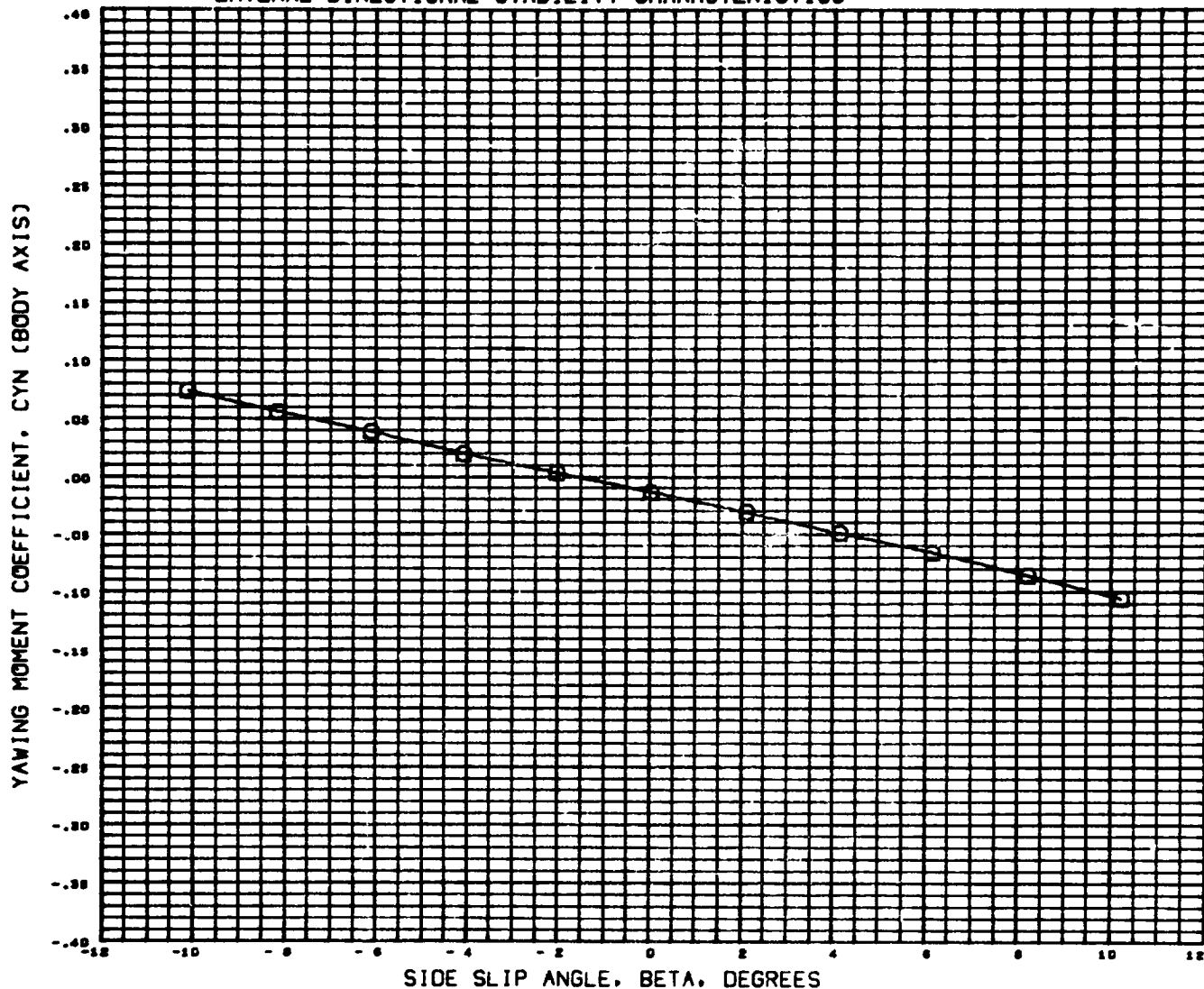
SYMBOL \square NACH 4.999

PARAMETRIC VALUES
 ALPHA 51.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 AILRON 0.000

REFERENCE INFORMATION
 SAL 4.6225 86. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 9E

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

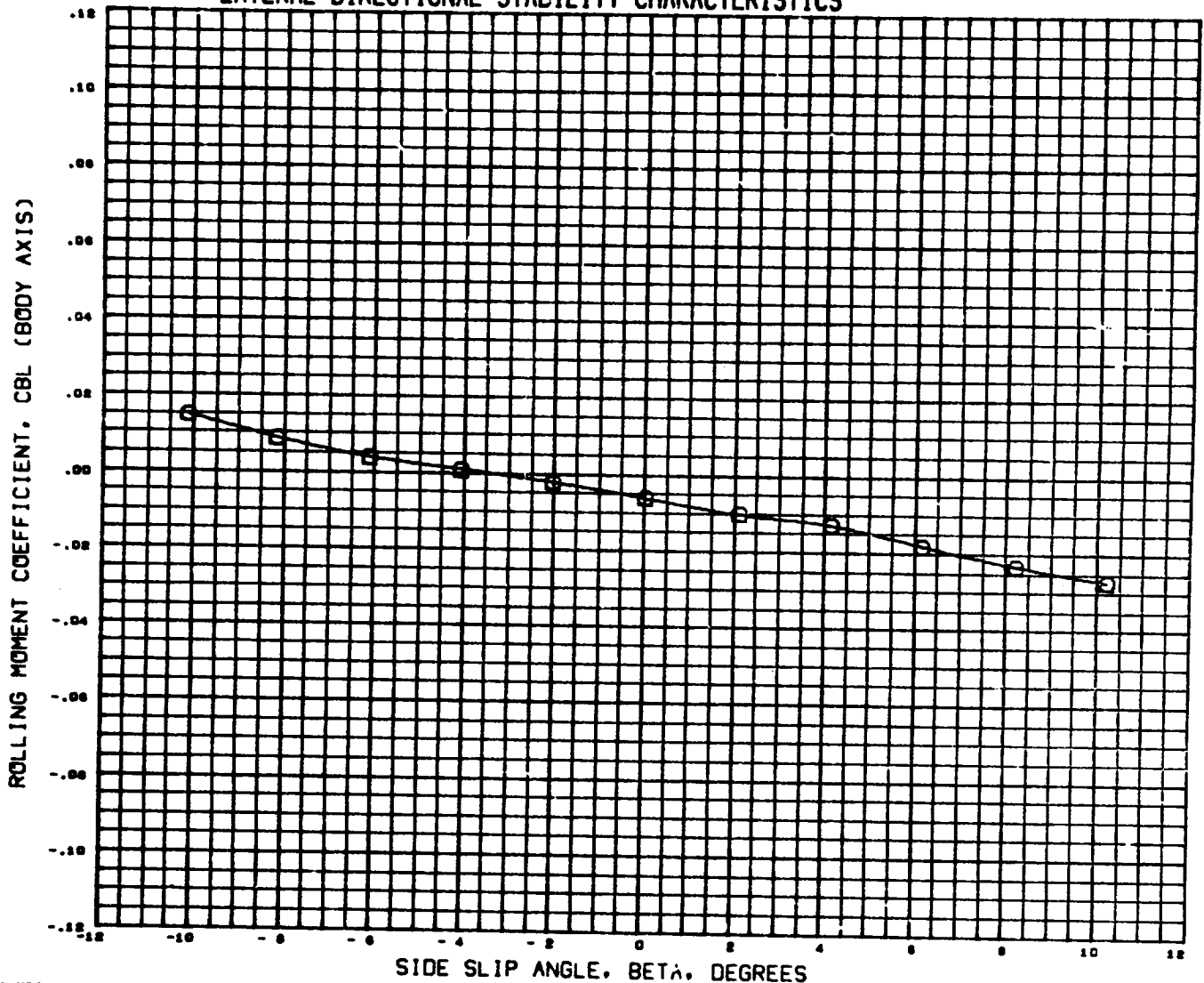


SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION	
		ALPHA	DEL	ELEVTR			
O	4.959	51.000	0.000	0.000		CHET	4.6225 88. IN.
		DER	0.000	0.000		LNPR	4.3000 IN.
		AILRON	0.000			BREF	4.3000 IN.
						XMRP	2.4000 IN.
						YMRP	0.0000 IN.
						ZMRP	0.0000 IN.
						SCALE	0.0025

DATA HIST. CODE *

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414J) 24 AUG 71 PAGE 571

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



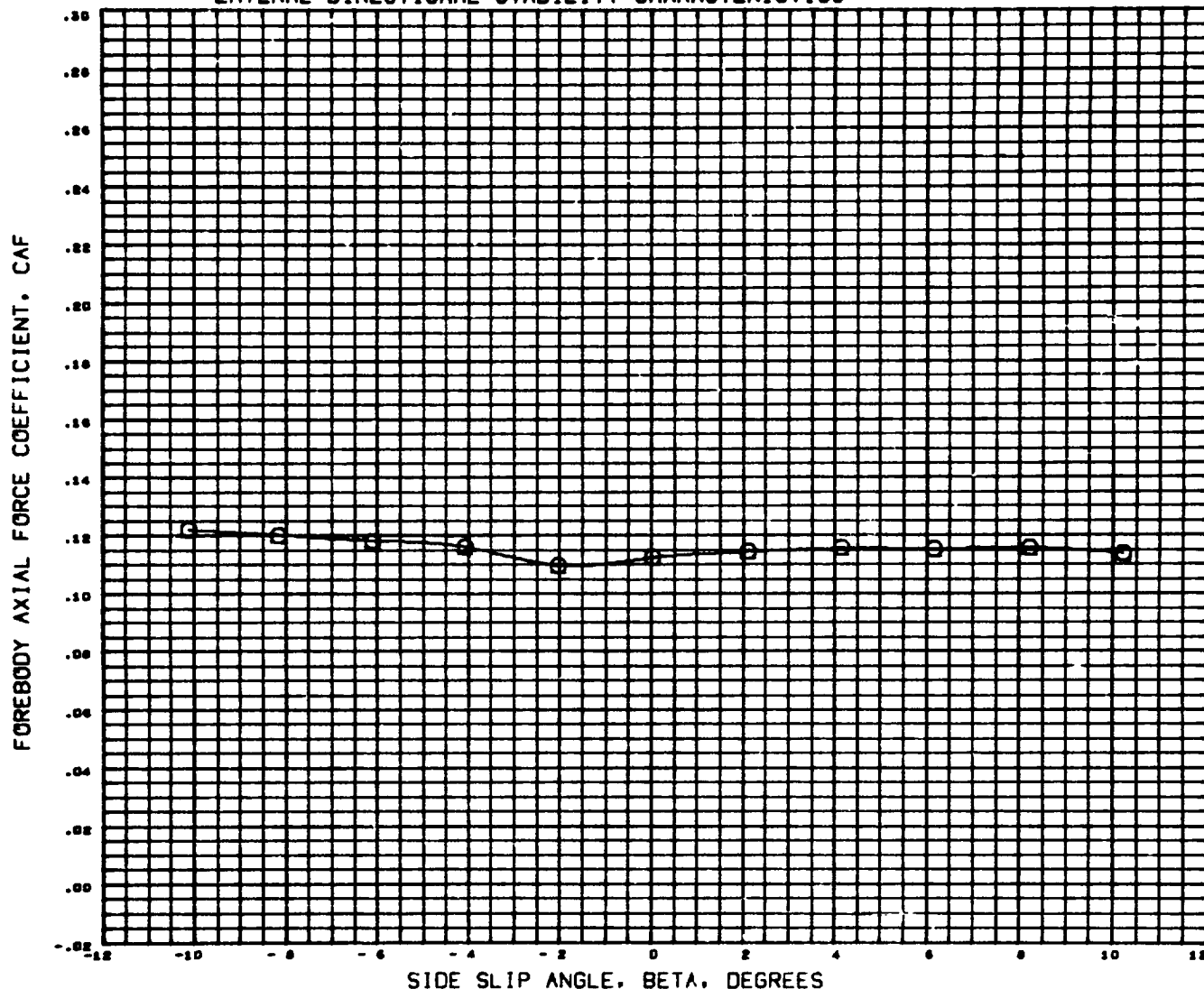
SYMBOL \bigcirc MACH 4.959
 ALPHA 51.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 AILRON 0.000

REFERENCE INFORMATION
 SPLT 4.6225 58. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE *E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414J) 24 AUG 71 PAGE 572

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



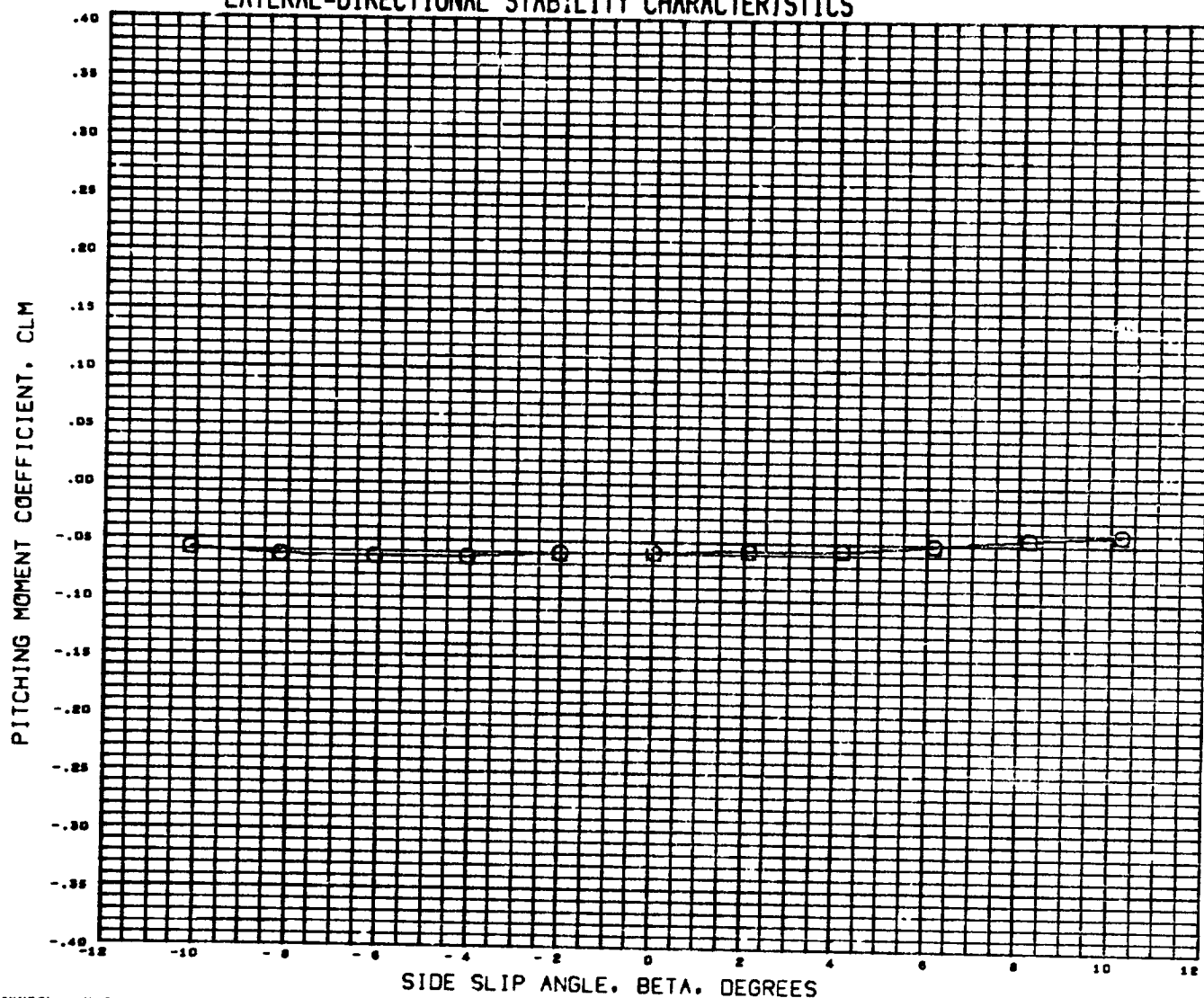
SYMBOL	NACII	PARAMETRIC VALUES			
○	4.059	ALPHA	51.000	DEL	0.000
		DER	0.000	ELEVTR	0.000
		AILRON	0.000		

REFERENCE INFORMATION		
SREF	4.4225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0029	

DATA HIST. CODE #E

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414J) 24 AUG 71 PAGE 573

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



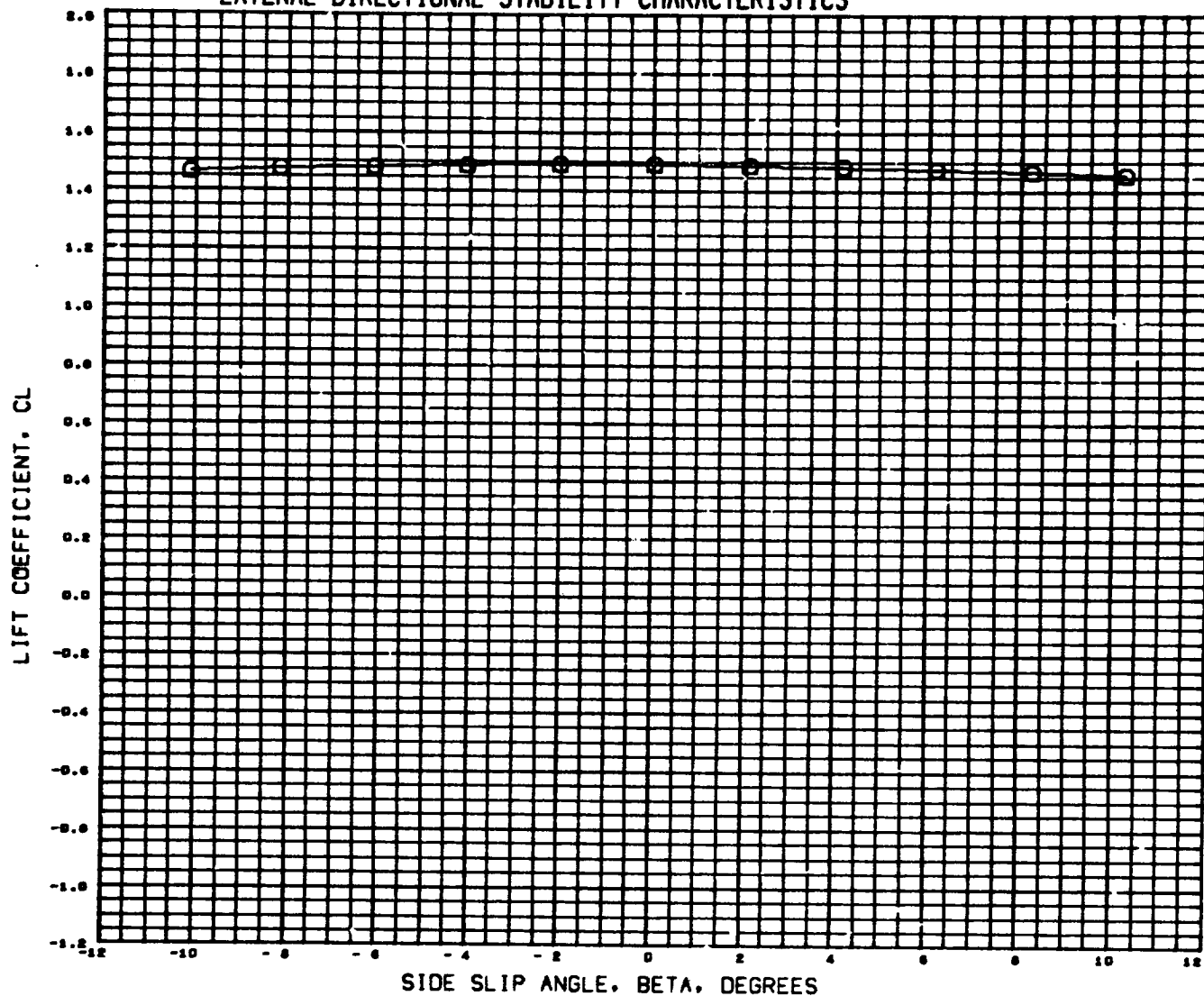
SYMBOL \square MACH 4.959
 PARAMETRIC VALUES
 ALPHA 51.000 DEL 0.000
 DER 0.000 ELEVTA 0.000
 AILRON 0.000

REFERENCE INFORMATION
 LREF 4.6225 SQ. IN.
 WREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE *E

M492-MSFC AR1198I-1 MODEL B2W6V2 (E3414J) 24 AUG 71 PAGE 574

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



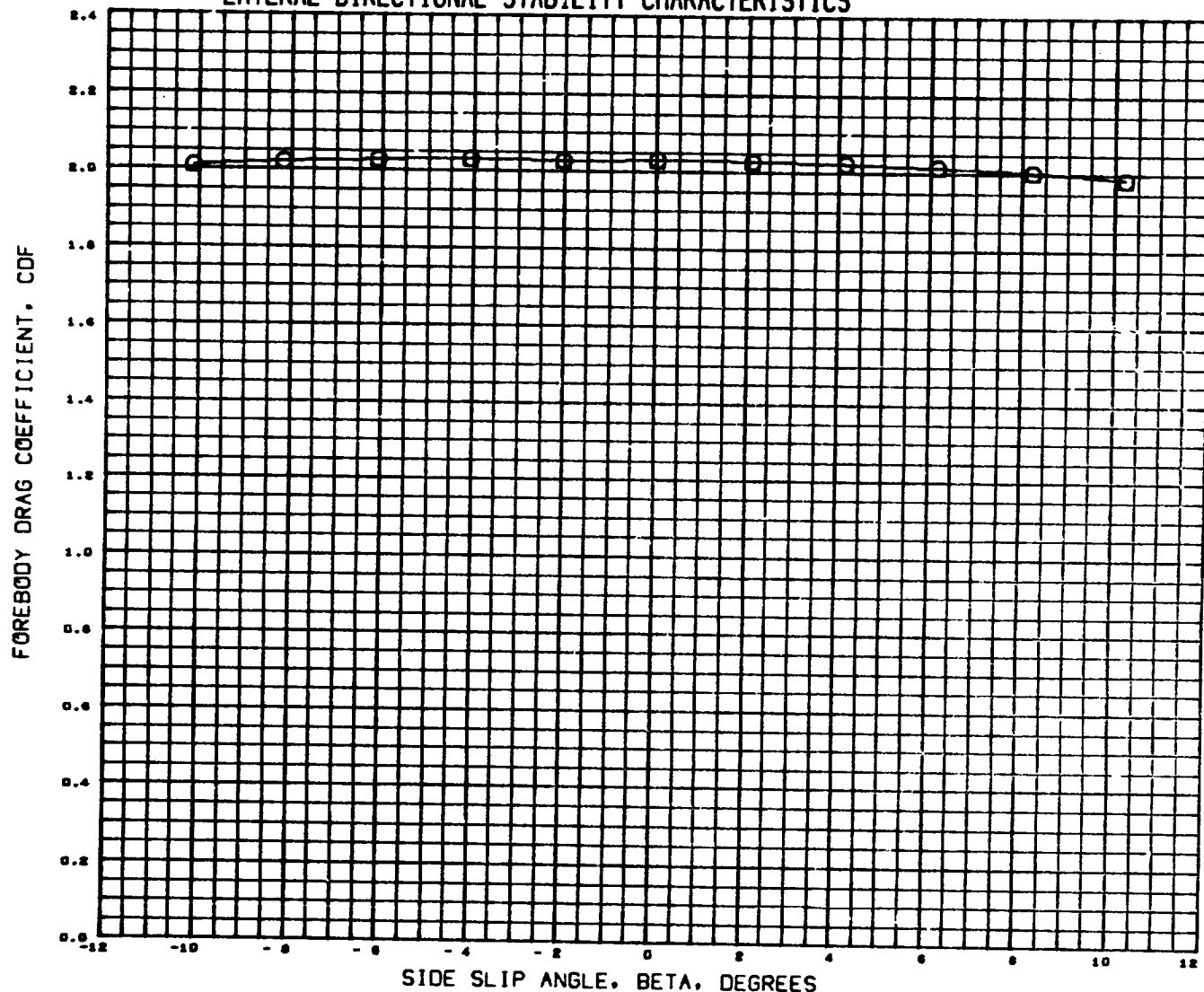
SYMBOL \bigcirc MACH 4.999
 PARAMETRIC VALUES
 ALPHA 51.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 ATLRON 0.000

REFERENCE INFORMATION
 STCF 4.6825 80. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XNRP 2.4000 IN.
 YNRP 0.0000 IN.
 ZNRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 82

M492-MSFC AR11981-1 MODEL B2W6V2 (E3414J) 24 AUG 71 PAGE 575

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS



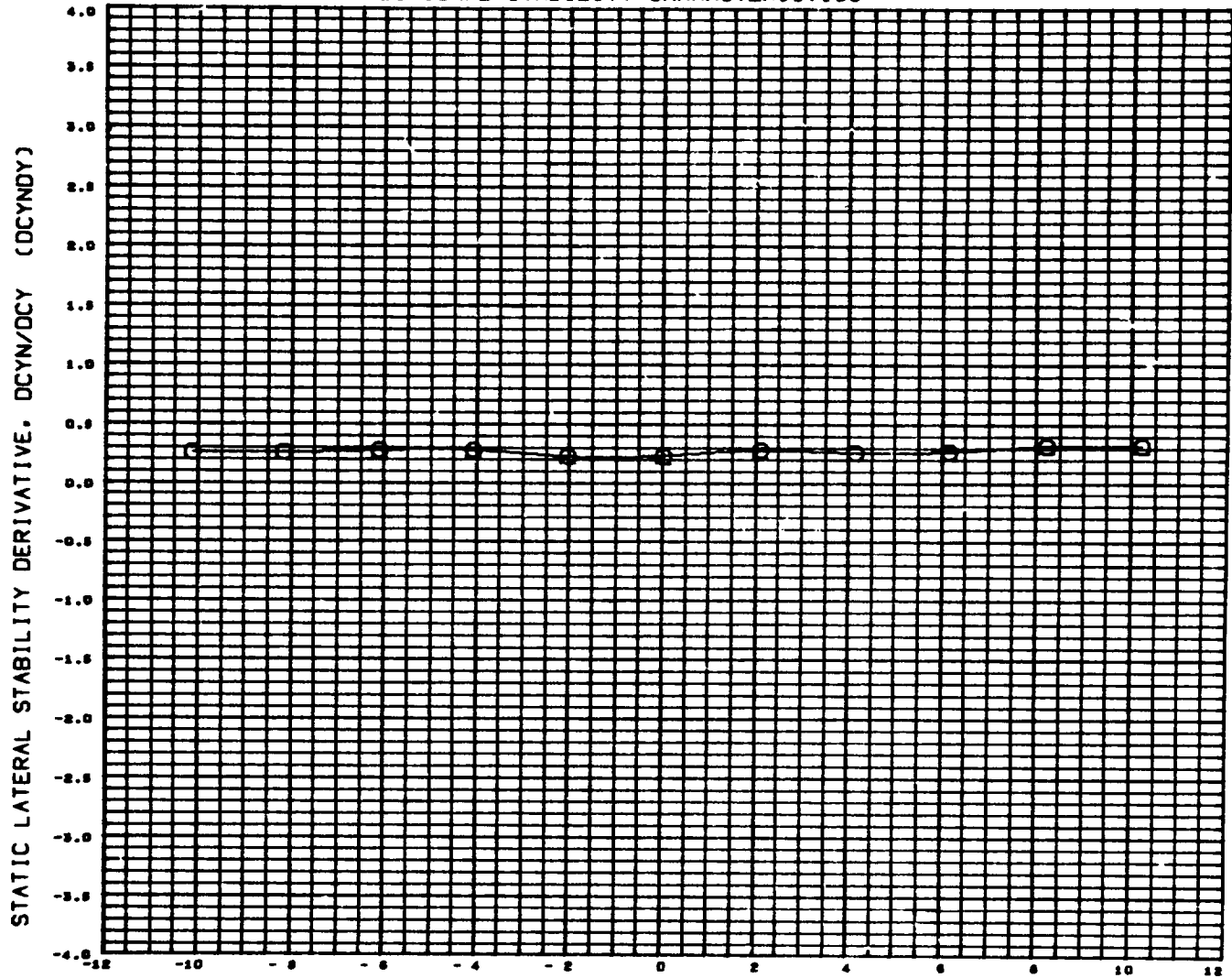
SYMBOL \square MACH 4.959
 ALPHA 51.000 DEL 0.000
 DER 0.000 ELEVTR 0.000
 AILRON 0.000

REFERENCE INFORMATION
 REF 4.5225 30. IN.
 LRC 4.3000 IN.
 DREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE *E

M492-MSFC AR1198I-1 MODEL B2W6V2 (E3414J) 24 AUG 71 PAGE 576

LATERAL-DIRECTIONAL STABILITY CHARACTERISTICS

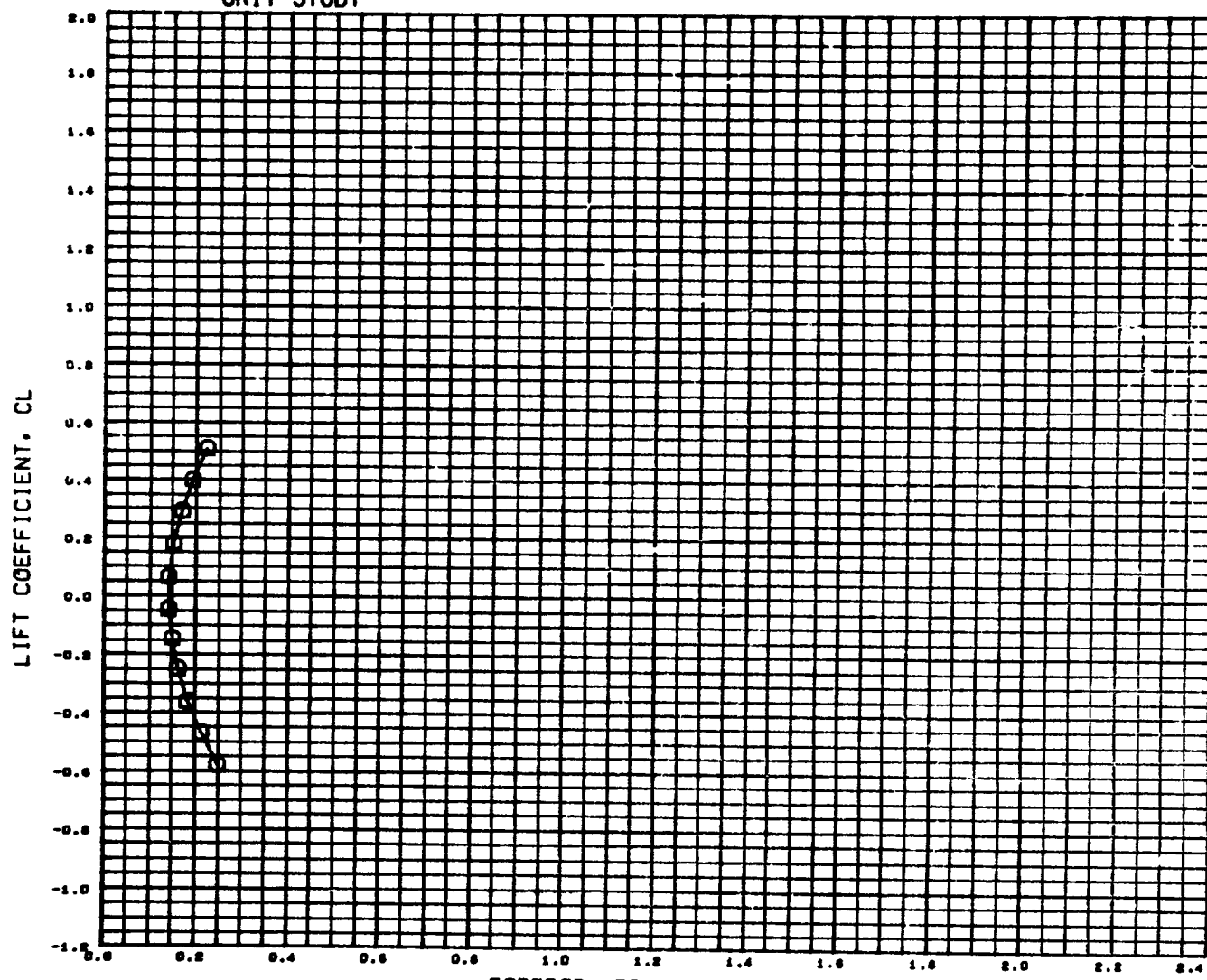


SYMBOL	MACH	PARAMETRIC VALUES			
Q	4.059	ALPHA	51.000	DEL	0.000
		DER	0.000	ELEVTR	0.000
		AILRON	0.000		

REFERENCE INFORMATION		
SREF	4.0225	50. IN.
LRIF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE *

GRIT STUDY



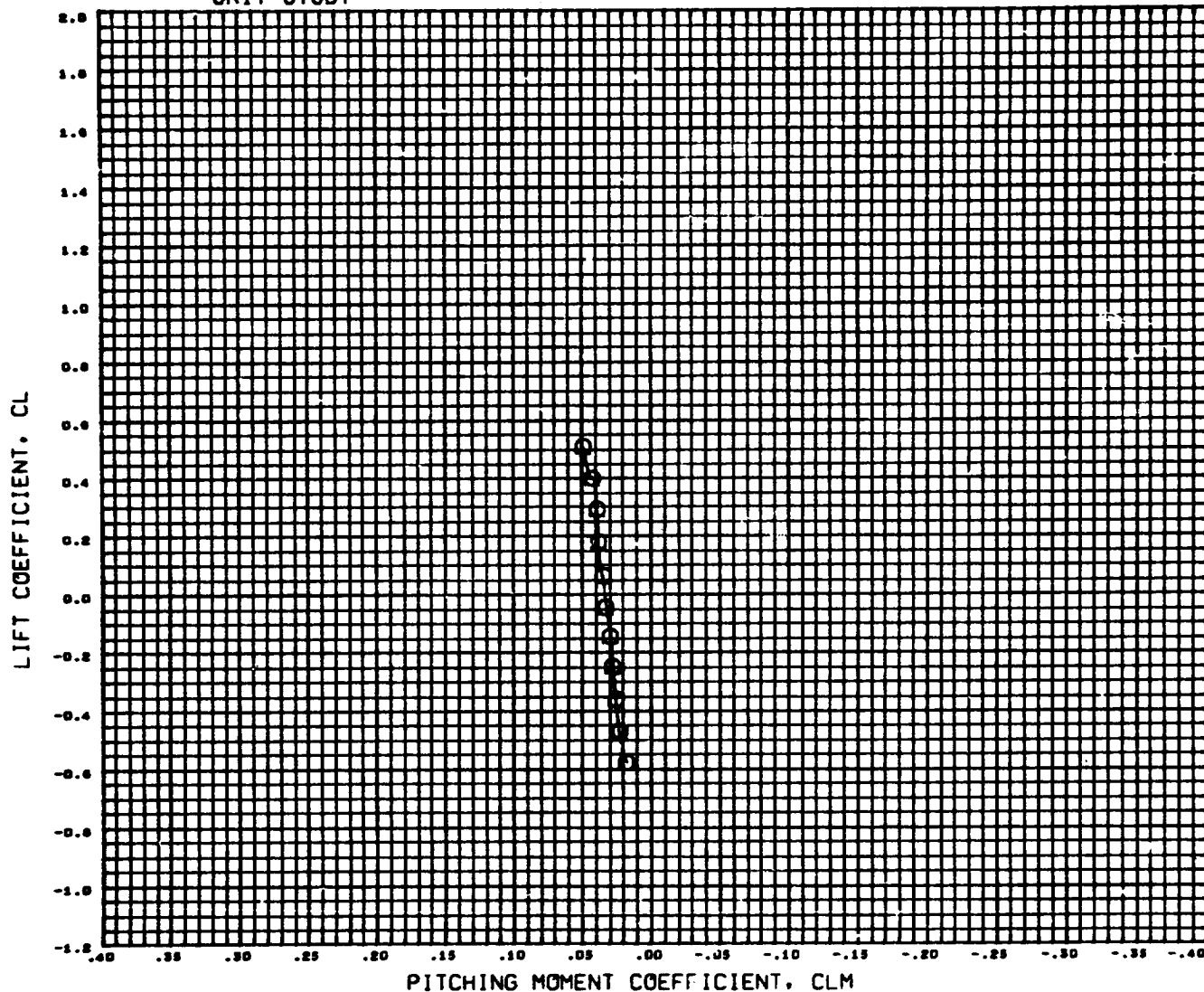
SYMBOL	MACH	PARAMETRIC VALUES			
0	1.034	BETA	0.000	DEL D	0.000
		ER EL	0.000	EVTRAI	0.000
		LRONCA	0.000	NARD	0.000

REFERENCE INFORMATION		
SPEF	4.6225	80. IN.
LRFF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE T

M492-MSFC AR11981-1 MODEL B2W6V2C12+TS1 (S3405C) 24 AUG 71 PAGE 578

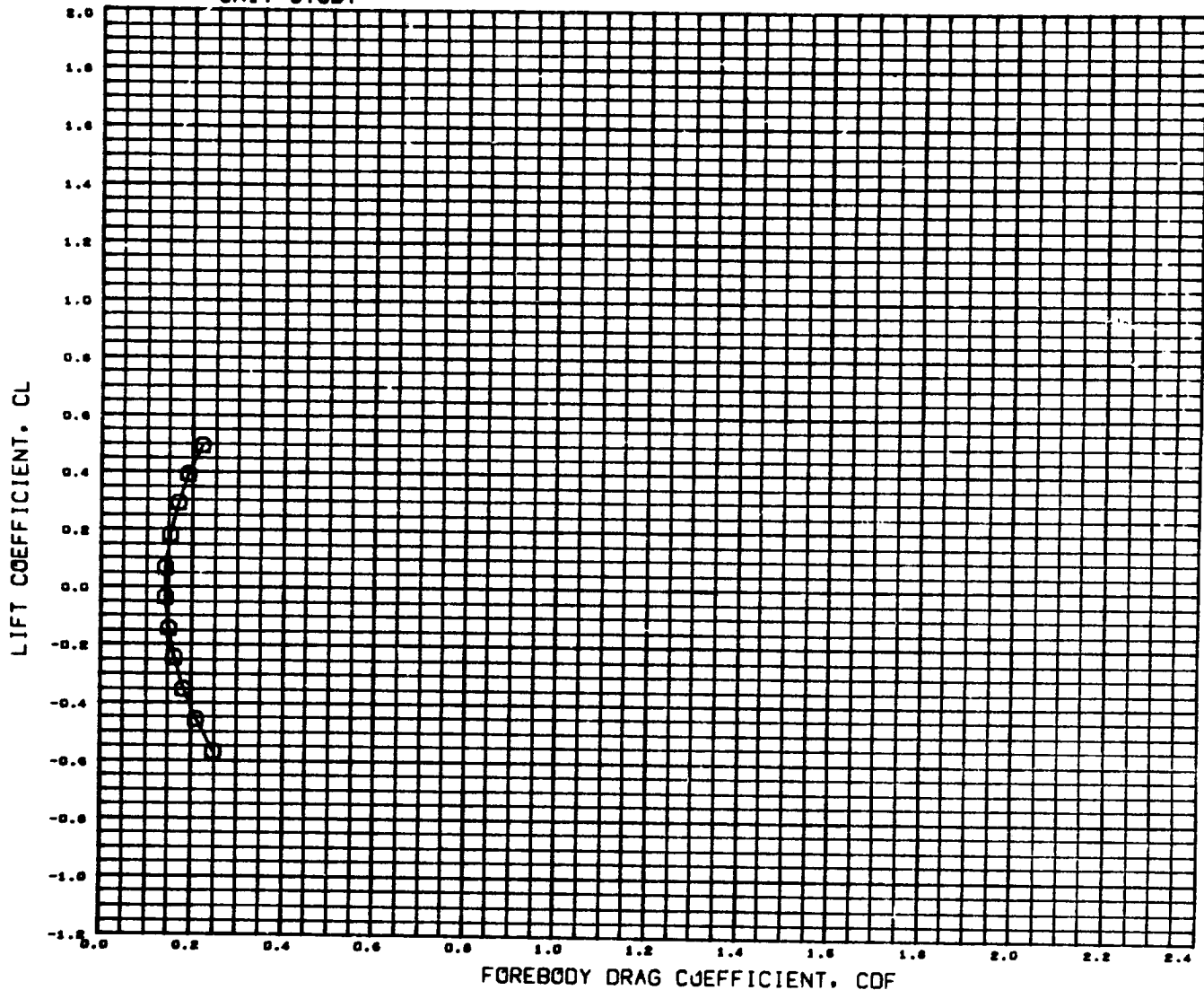
GRIT STUDY



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL D	DEL D	DEL D	SRE	4.6225	88-IN.
□	1.934	ER EL	0.000	EVTRAI	0.000	LRFP	4.3000	IN.
		LRONCA	0.000	NARD	0.000	BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE T

GRIT STUDY



SYMBOL \bigcirc MACH 1.949

PARAMETRIC VALUES

BETA	0.000	DEL	0.000
DER E	0.000	LEVTRA	0.000
ILRMC	0.000	ANARD	0.000

REFERENCE INFORMATION

REF	4.5225	58. IN.
LRD	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0024	

DATA HIST. CODE T

M492-MSFC

AR11981-1

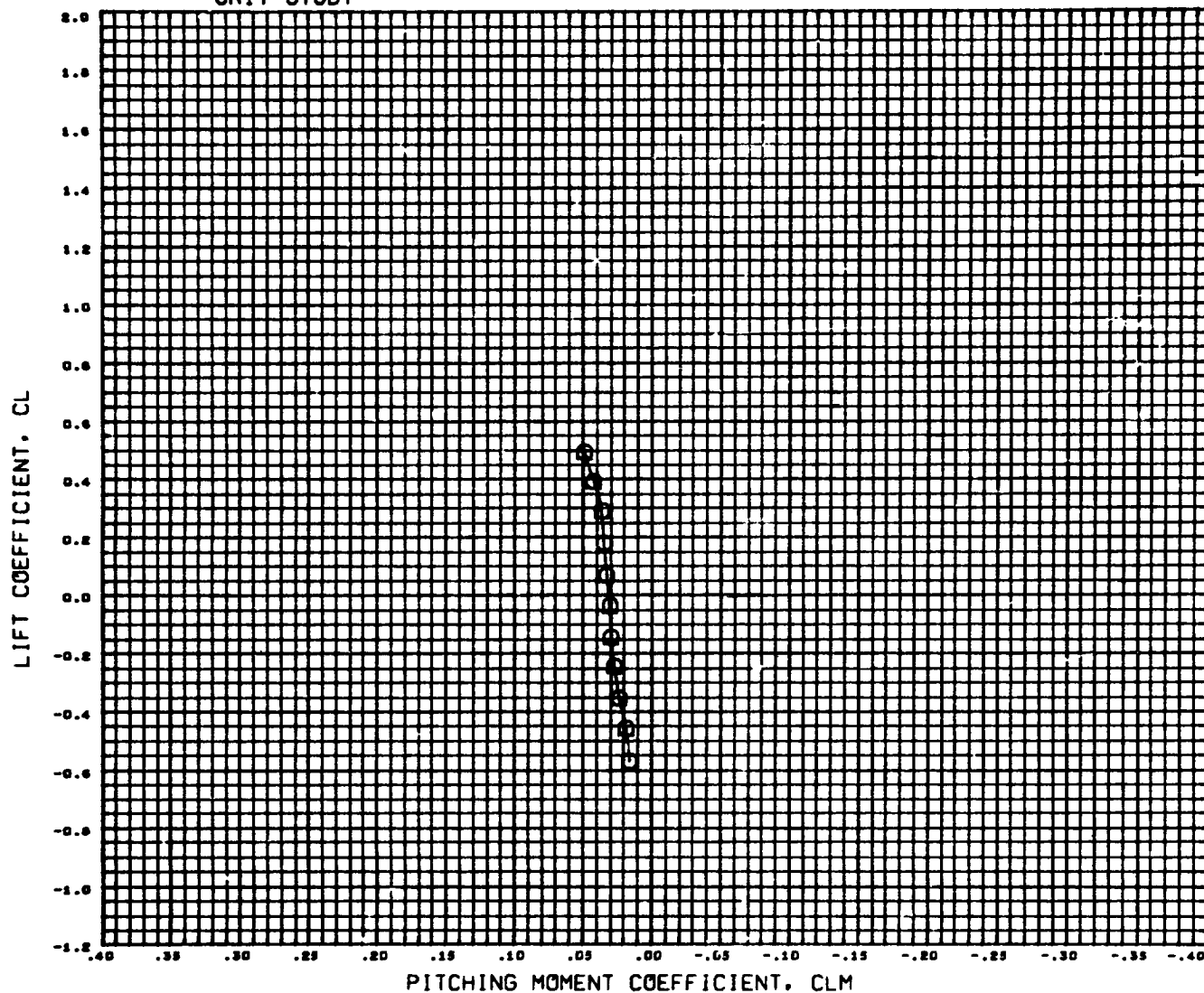
MODEL

B2W6V2C12+TS2 (S3405S)

24 AUG 71

PAGE 580

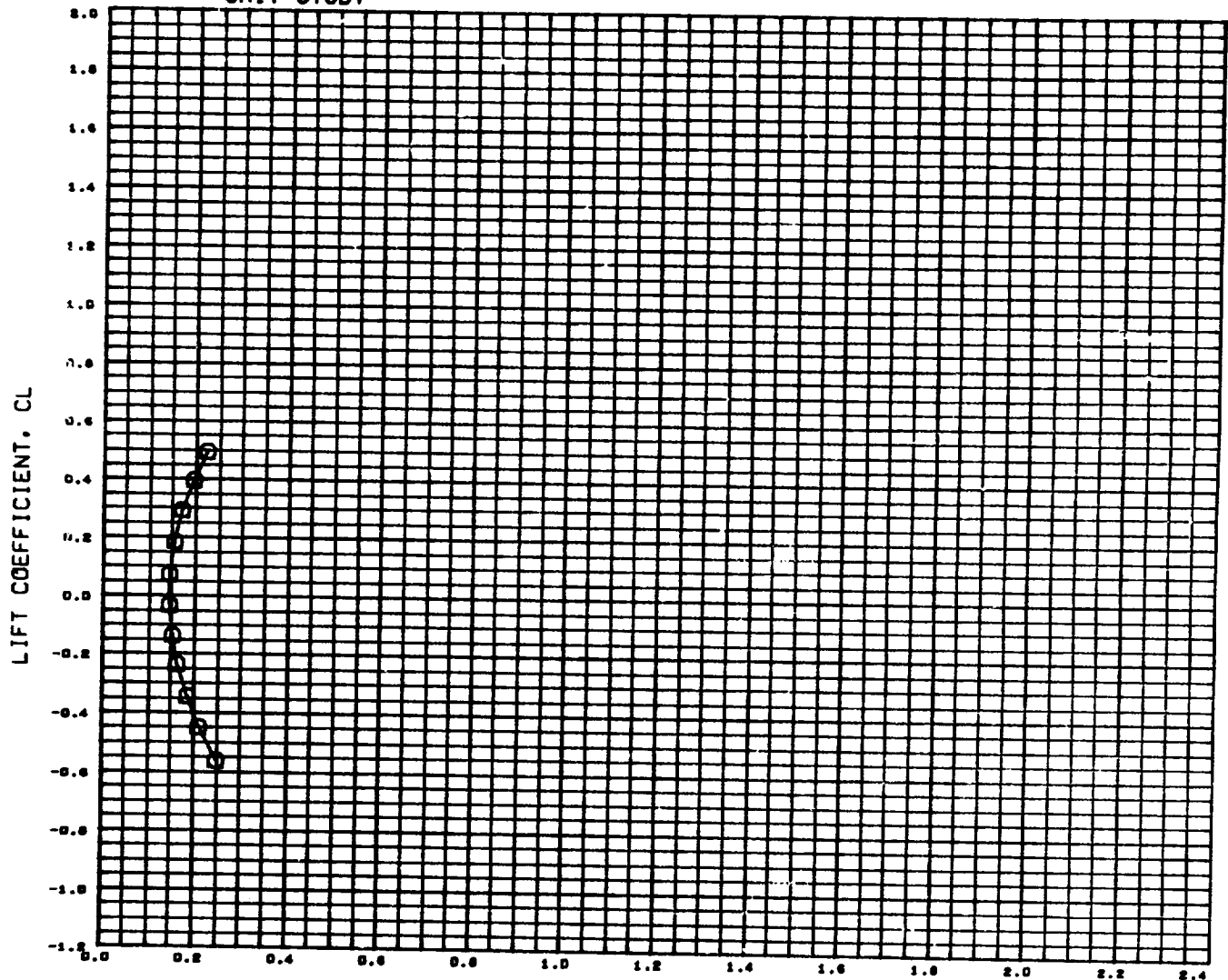
GRIT STUDY



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	LEVTRA	ANARD	ORET	LR	SCALE
Q	1.049	0.000	0.000	0.000	0.000	4.6225	80. IN.	
		DER E	0.000	LEVTRA	0.000	4.3000	IN.	
		ILRONG	0.000	ANARD	0.000	4.3000	IN.	
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0024	

DATA HIST. CODE 7

GRIT STUDY



SYMBOL
Q

MACH
1.959

PARAMETRIC VALUES
BETA 0.000 DEL D 0.000
ER EL 0.000 EVTRAI 0.000
LRCNCA 0.000 NARD 0.000

FOREBODY DRAG COEFFICIENT, CDF

REFERENCE INFORMATION
SR 4.8225 58. IN.
LKT 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE T

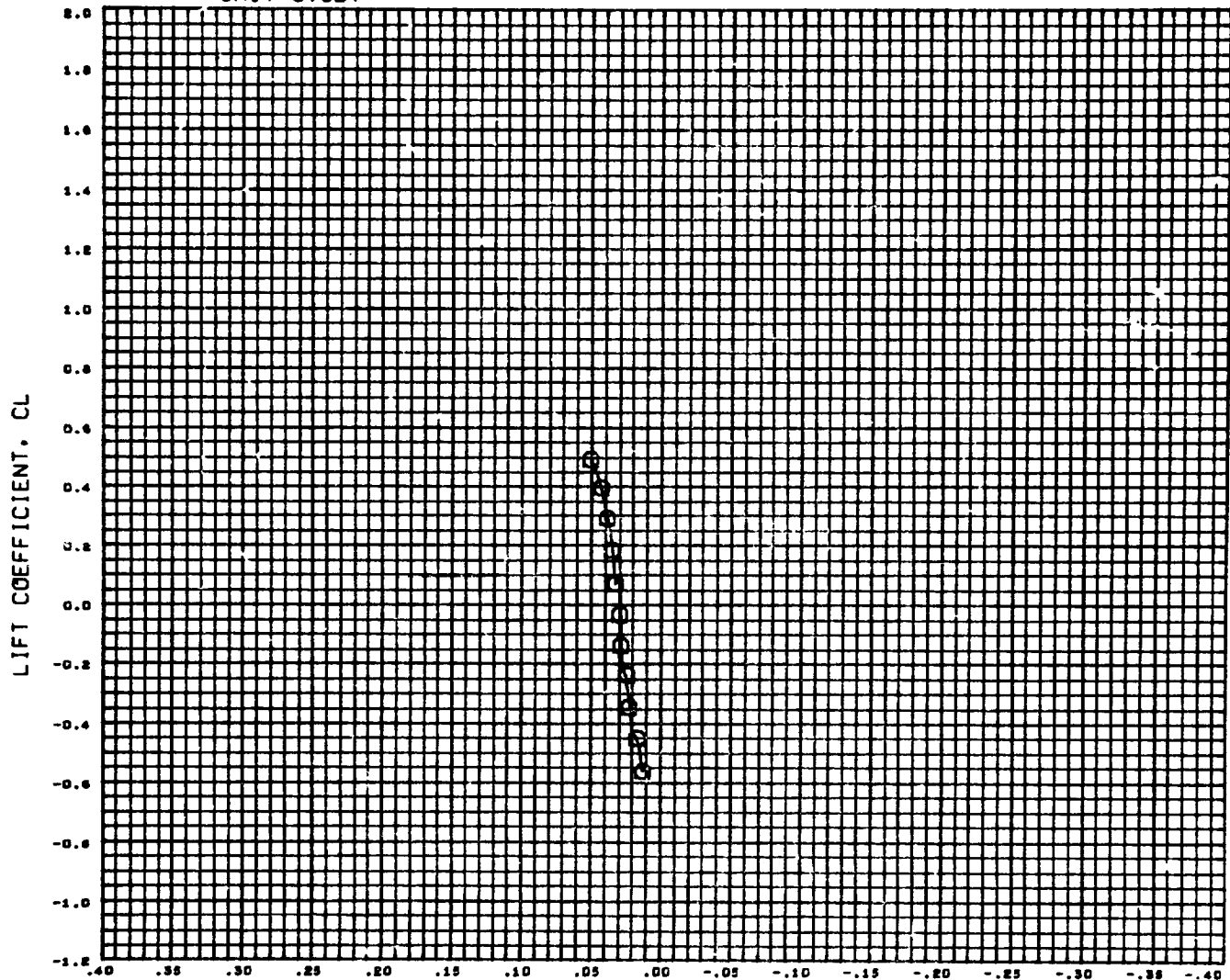
M492-MSFC

AR1198I-1 MODEL

B2W6V2C12+TS3 (S3405T) 24 AUG 71

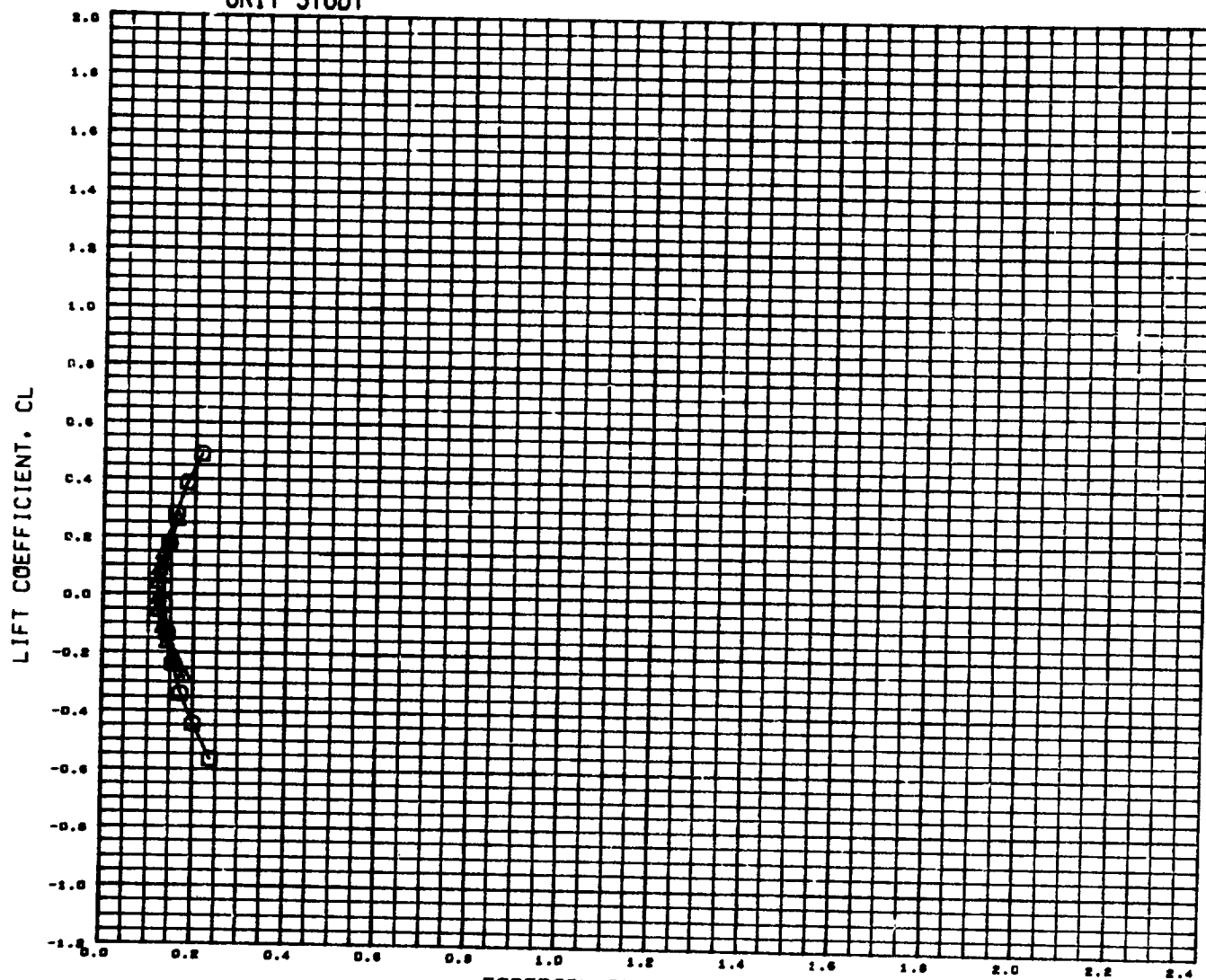
PAGE 582

GRIT STUDY



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	1.959	BETA	0.000	DEL D	0.000	REF	4.6225	80. IN.
		ER EL	0.000	EVTRA1	0.000	LNREF	4.3000	IN.
		LRONCA	0.000	YARD	0.000	BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	
DATA HIST. CODE 1								

GRIT STUDY

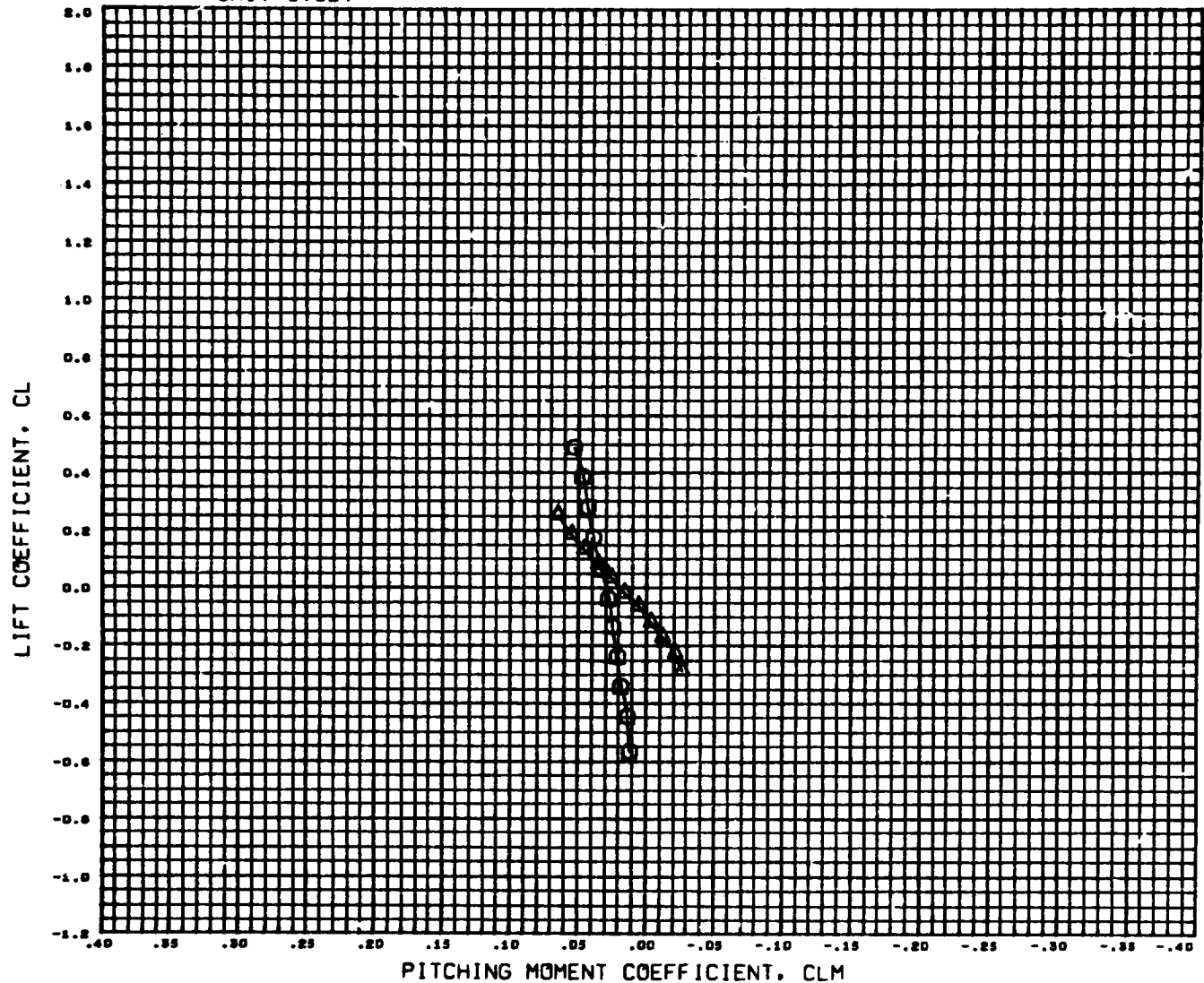


SYMBOL	MACH	PARAMETRIC VALUES			
⊗	1.956	BETA	0.000	DEL	0.000
	4.939	DER	0.000	ELEVTR	0.000
		AILRON	0.000	CANARD	0.000

REFERENCE INFORMATION		
SRFF	4.6225	36. IN.
LRG	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE	ML*AVT
-----------------	--------

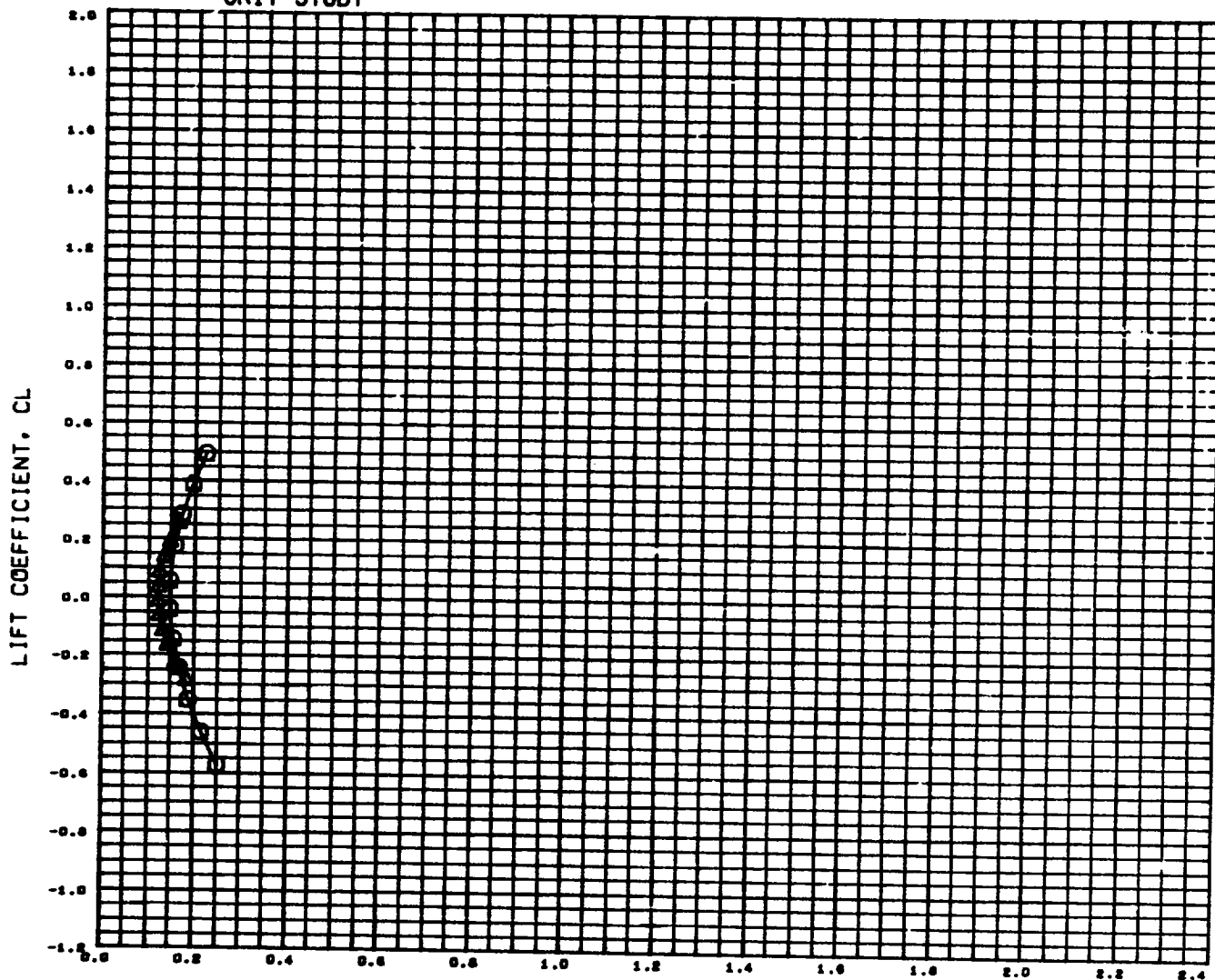
GRIT STUDY



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
		BETA	DEL	ELEVTR	CANARD	REF	IN.	IN.
O Δ	1.956	0.000	0.000	0.000	0.000	4.6225	38.000	IN.
	4.959	0.000	0.000	0.000	0.000	4.3000	IN.	IN.
		AILRON	0.000	0.000	0.000	4.3000	IN.	IN.
						2.4000	IN.	IN.
						0.0000	IN.	IN.
						0.0000	IN.	IN.
						0.0025		

DATA HIST. CODE M.*AVT
M492-MSFC- AR1198i-1 MODEL B2W6V2C12 (S3405U) 24 AUG 71 PAGE 585

GRIT STUDY



SYMBOL



MACH

1.955
4.955

BETA

ER EL

LRONCA

PARAMETRIC VALUES

DEL 0

EVTRA1

MARD

FOREBODY DRAG COEFFICIENT, CDF

0.000

0.000

0.000

REFERENCE INFORMATION

SCFF 4.6225 50-IN.
LREF 4.3000 IN.
BREF 4.3000 IN.
XNRP 2.4000 IN.
YNRP 0.0000 IN.
ZNRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE T

M492-MSFC

AR1198I-1

MODEL

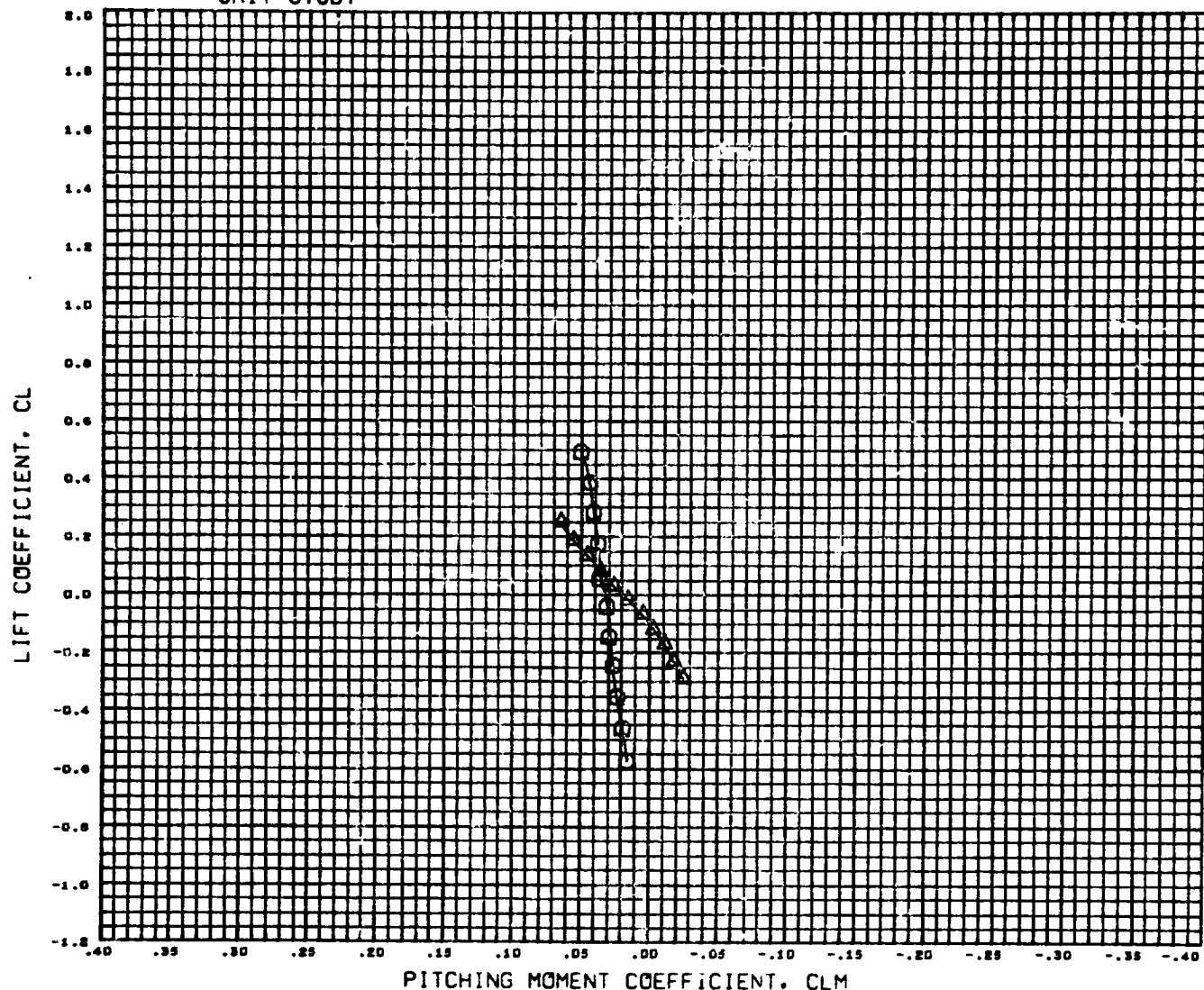
B2W6V2C12+TS4 (S3405V)

24 AUG 71

PAGE

586

GRIT STUDY

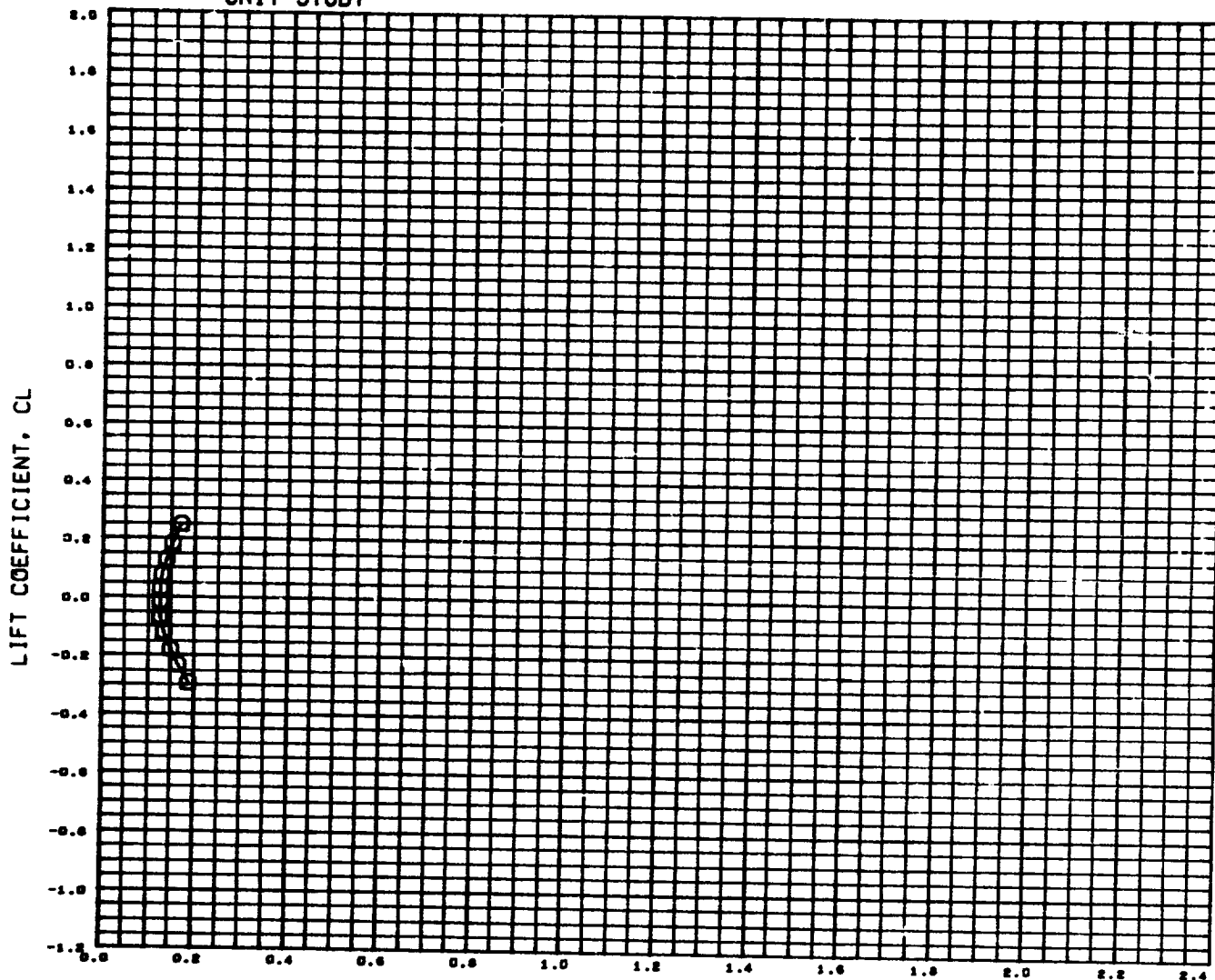


SYMBOL	MACH	PARAMETER	VALUES	REFERENCE INFORMATION
○	3.955	BETA	0.000	REF 4.6225 80. IN.
△	4.959	ER EL	0.000	LPI 4.3000 IN.
		LRONCA	0.000	BREF 4.3000 IN.
				XMRP 2.4000 IN.
				YMRP 0.0000 IN.
				ZMRP 0.0000 IN.
				SCALE 0.0025

DATA HIST. CODE

M492-MSFC AR11981-1 MODEL B2W6V2C12+TS4 (S3405V) 24 AUG 71 PAGE 587

GRIT STUDY



SYMBOL \bigcirc MACH 4.058

PARAMETRIC VALUES
 BETA 0.000 DEL D 0.000
 EA EL 0.000 EVTRAI 0.000
 LRONCA 0.000 NARD 0.000

REFERENCE INFORMATION
 XREF 4.6225 50. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XMRP 2.4000 IN.
 YMRP 0.0000 IN.
 ZMRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE T

M492-MSFC

AR1199I-1

MODEL

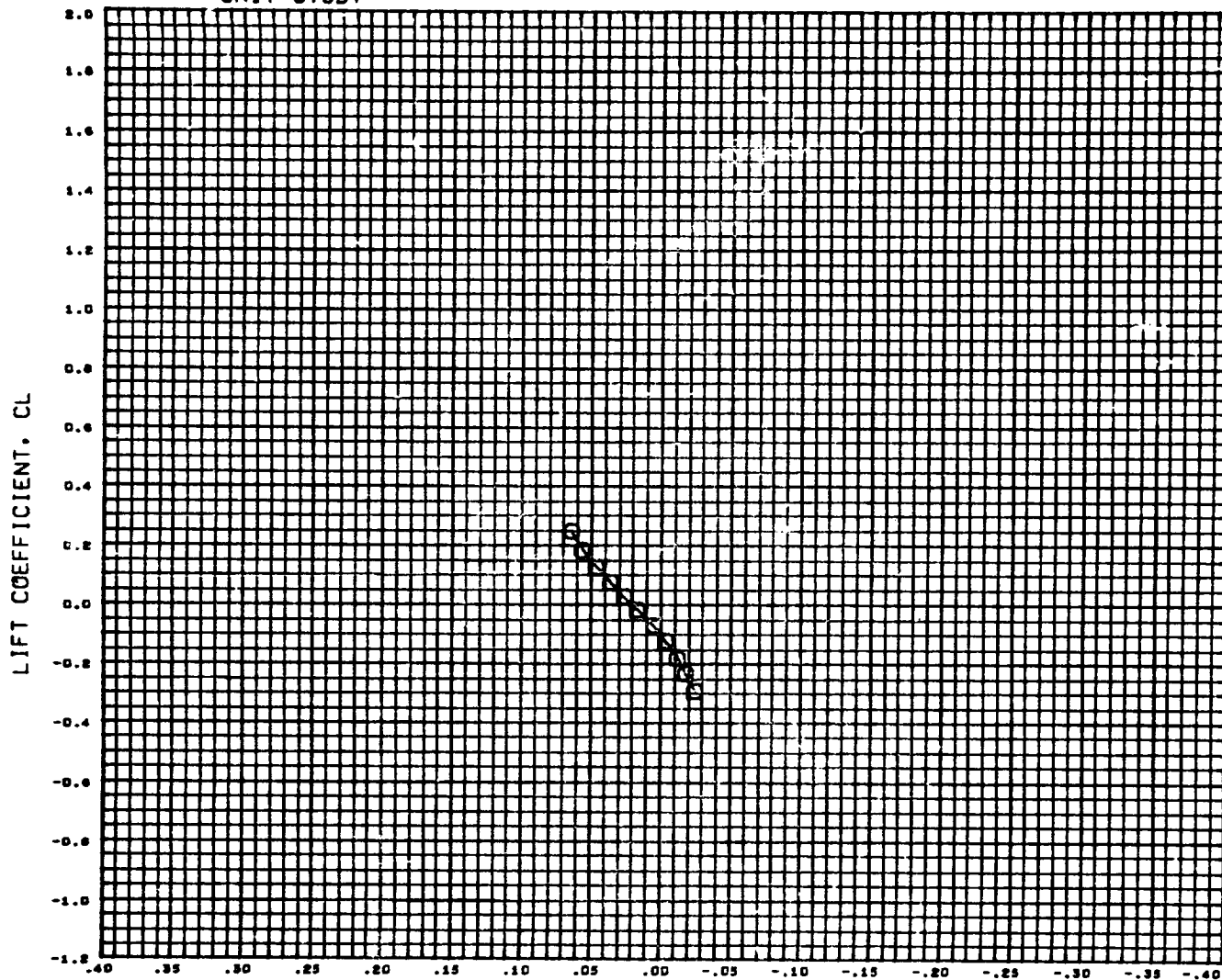
B2W6V2C12+TS5 (S3405W)

24 AUG 71

PAGE

588

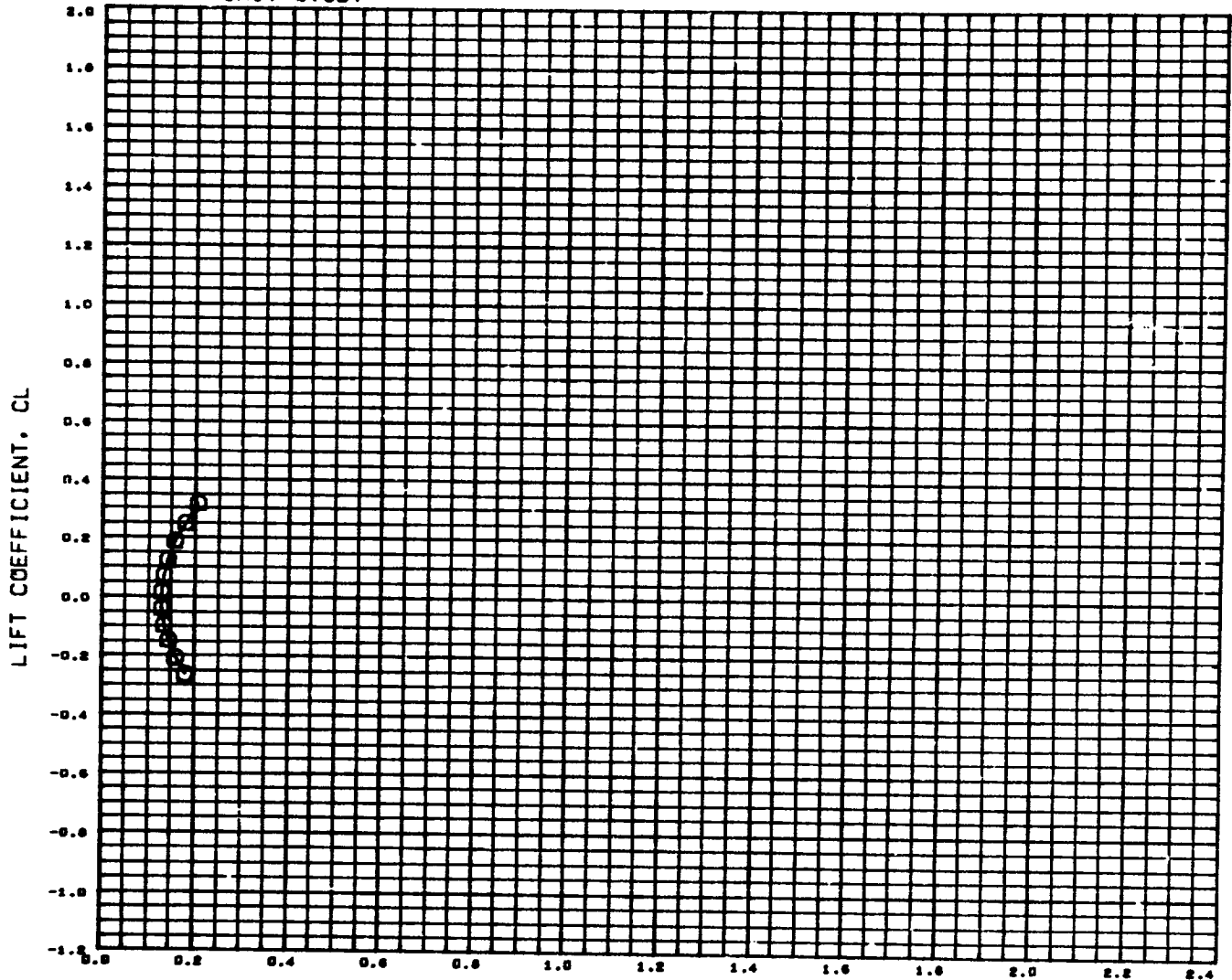
GRIT STUDY



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
□	4.959	BETA	0.000	DEL D	0.000	SCFF	4.6225	88 IN.
		ER EL	0.000	E+TRAI	0.000	LRCL	4.3000	IN.
		LROWCA	0.000	N-RD	0.000	BREF	4.3000	IN.
						XMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE T

GRIT STUDY



SYMBOL
□

MACH
4.959

PARAMETRIC VALUES
BETA 0.000 DEL D 30.000
EN EL 30.000 FVTRAI 30.000
LRONCA 0.000 NARD 0.000

DATA HIST. CODE 7

FOREBODY DRAG COEFFICIENT, CDF

REFERENCE INFORMATION
CDREF 4.6225 80. IN.
LRREF 4.3000 IN.
DRREF 4.3000 IN.
XNRP 2.4000 IN.
YNRP 0.0000 IN.
ZNRP 0.0000 IN.
SCALE 0.0025

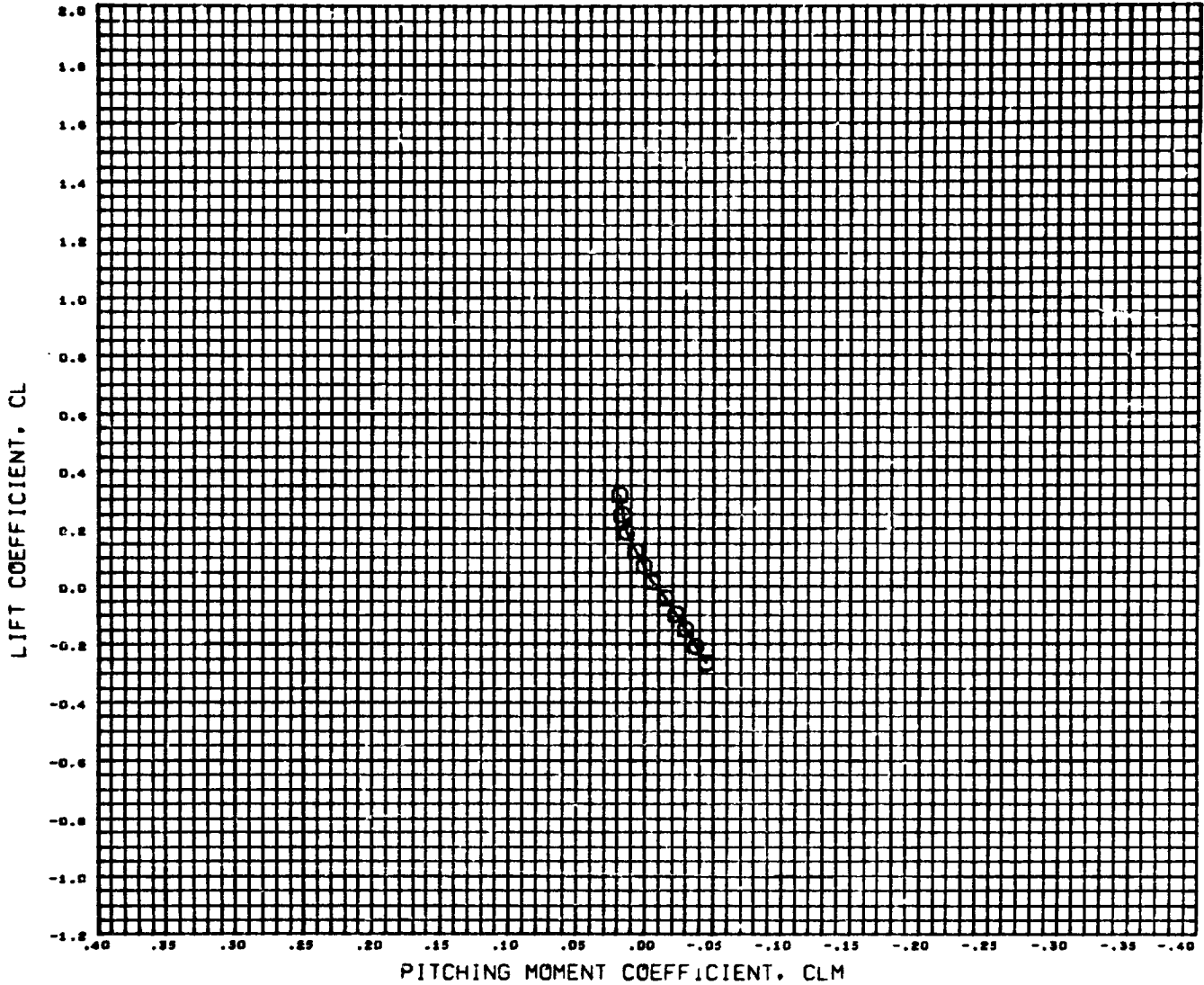
M492-MSFC

AR1198I-1 MODEL

B2W6V2C12+TS5 (S3409C) 24 AUG 71

PAGE 590

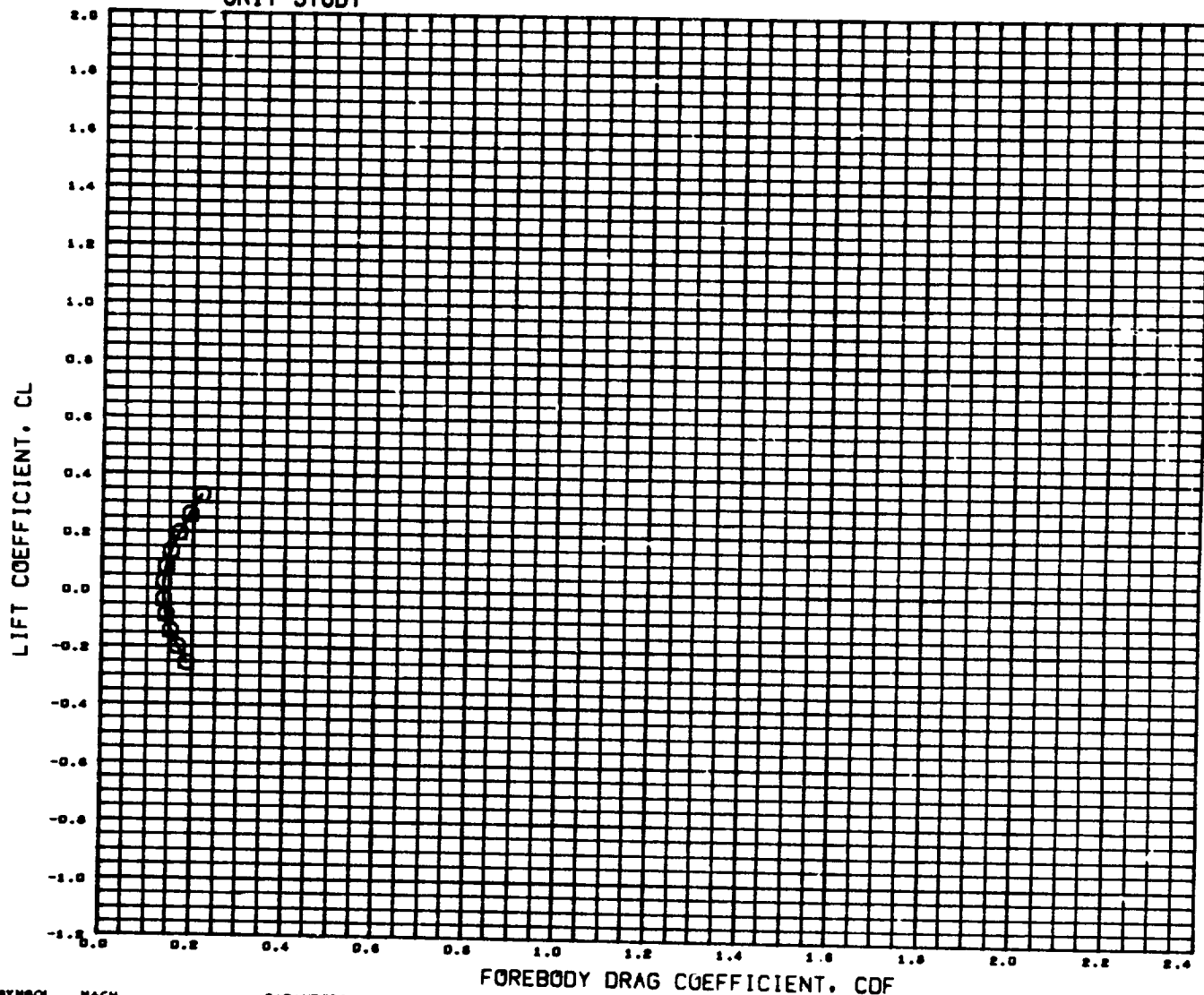
GRIT STUDY



SYMBOL	MACH	PARAMETRIC VALUES				REFERENCE INFORMATION		
○	4.959	BETA	0.000	DEL D	30.000	REF	4.6225	50. IN.
		ER EL	30.000	EYTRAI	30.000	LRC	4.3000	IN.
		LRONCA	0.000	NARD	0.000	BREF	4.3000	IN.
						KMRP	2.4000	IN.
						YMRP	0.0000	IN.
						ZMRP	0.0000	IN.
						SCALE	0.0025	

DATA HIST. CODE T

GRIT STUDY



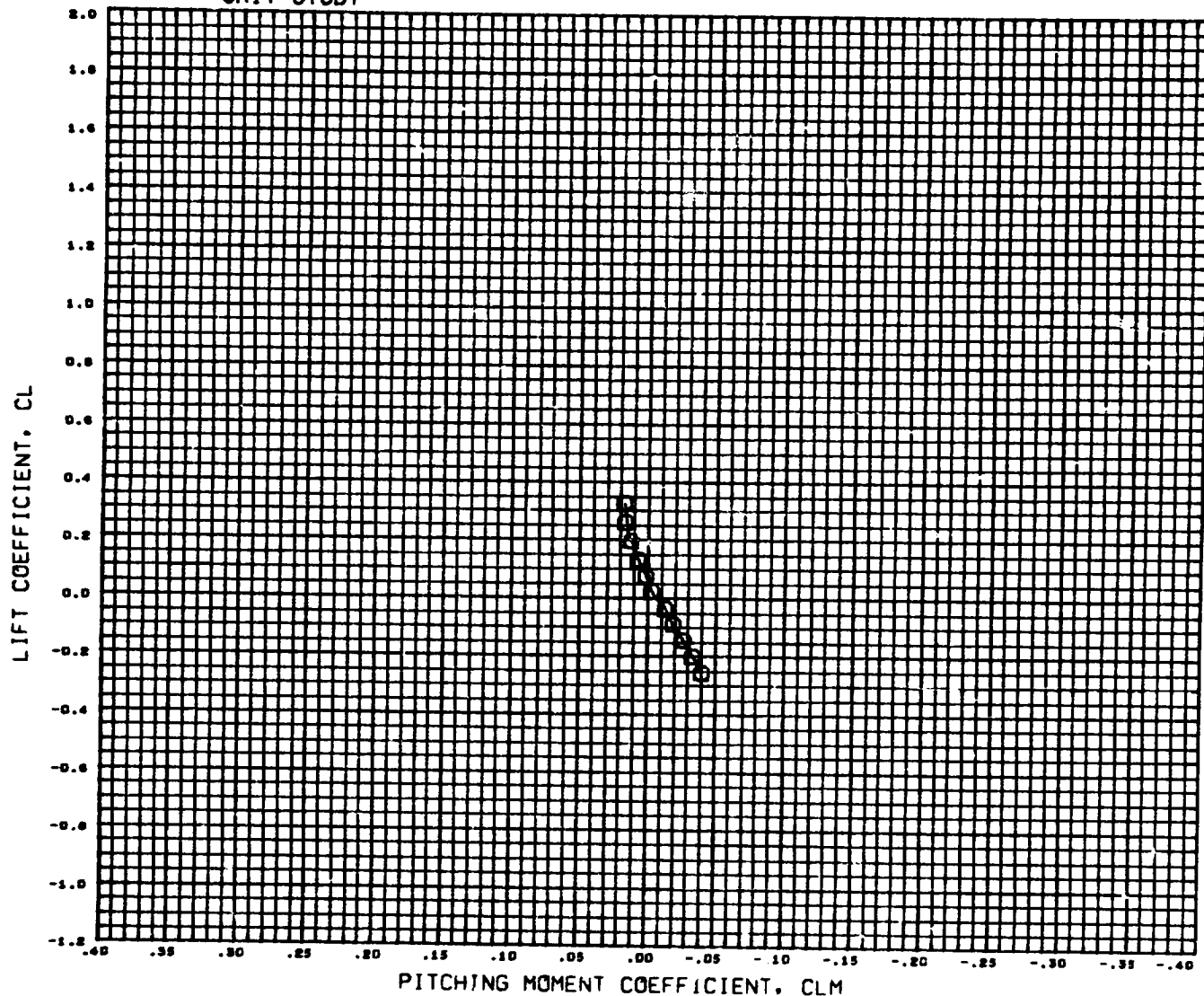
SYMBOL	MACH	PARAMETRIC VALUES			
O	4.959	BETA	0.000	DEL D	30.000
		ER EL	30.000	EYTRAZ	30.000
		LRONCA	0.000	NARD	0.000

REFERENCE INFORMATION		
S'FF	4.6225	80. IN.
LREF	4.3000	IN.
BREF	4.3000	IN.
XMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE T

M492-MSFC AR11981-1 MODEL B2W6V2C12+TS6 (S3409X) 24 AUG 71 PAGE 592

GRIT STUDY



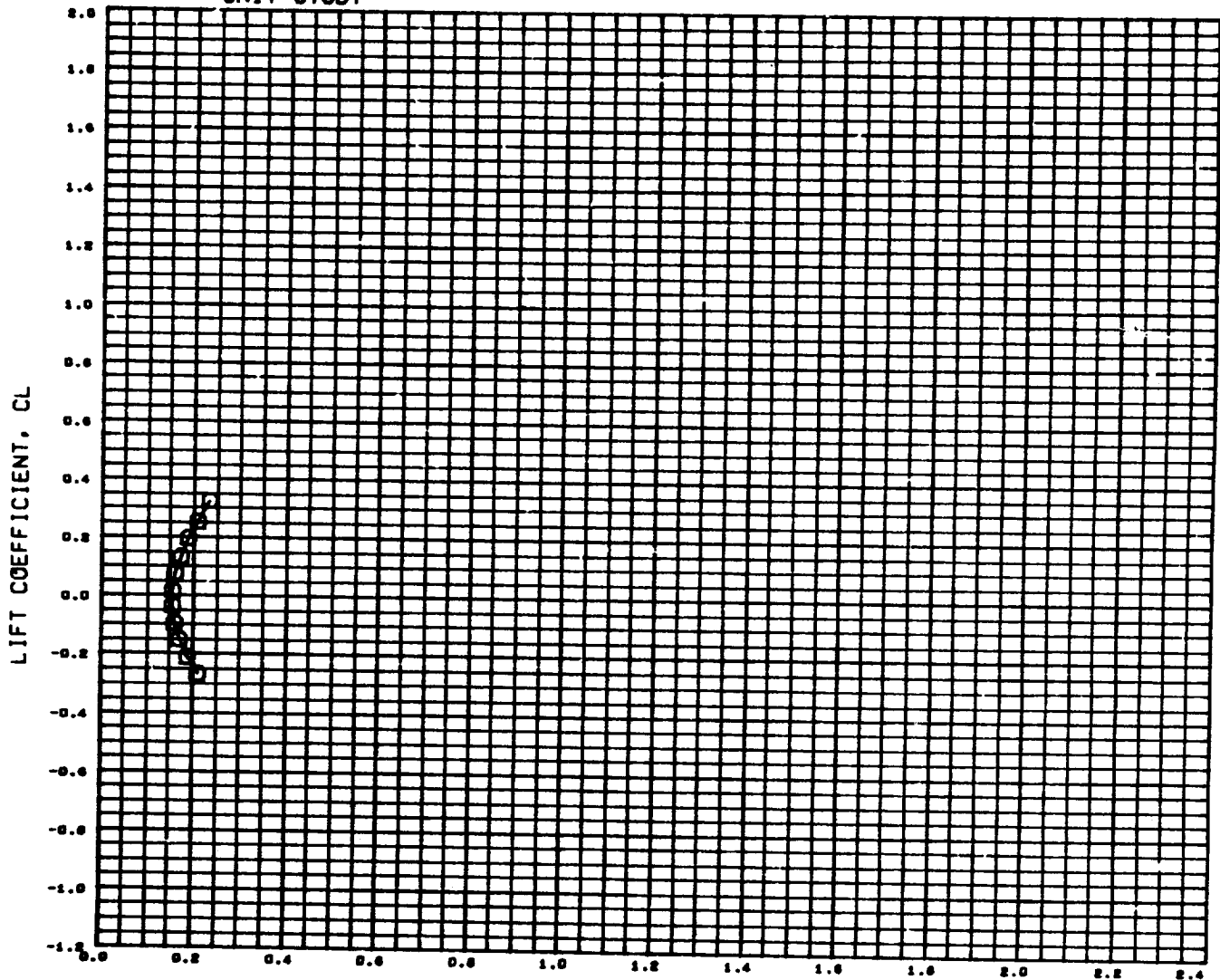
SYMBOL \bigcirc MACH 4.939
 BETA 0.000 DEL D 30.000
 ER EL 30.000 EVTRAI 30.000
 LRONCA 0.000 HARD 0.000

REFERENCE INFORMATION
 SREF 4.6225 30. IN.
 LREF 4.3000 IN.
 BREF 4.3000 IN.
 XNRP 2.4000 IN.
 YNRP 0.0000 IN.
 ZNRP 0.0000 IN.
 SCALE 0.0025

DATA HIST. CODE 1

M492-MSFC AR11981-1 MODEL B2W6V2C12+TS6 (S3409X) 24 AUG 71 PAGE 593

GRIT STUDY



SYMBOL

MACH
4.959

PARAMETRIC VALUES

BETA	0.000	DEL 0	30.000
ER EL	30.000	EVTRA1	30.000
LRONCA	0.000	NARD	0.000

FOREBODY DRAG COEFFICIENT, CDF

REFERENCE INFORMATION

SREF	4.6225	30. IN.
LRCP	4.3000	IN.
DRCP	4.3000	IN.
YMRP	2.4000	IN.
YMRP	0.0000	IN.
ZMRP	0.0000	IN.
SCALE	0.0025	

DATA HIST. CODE 7

M492-MSFC

AR1198I-1

MODEL

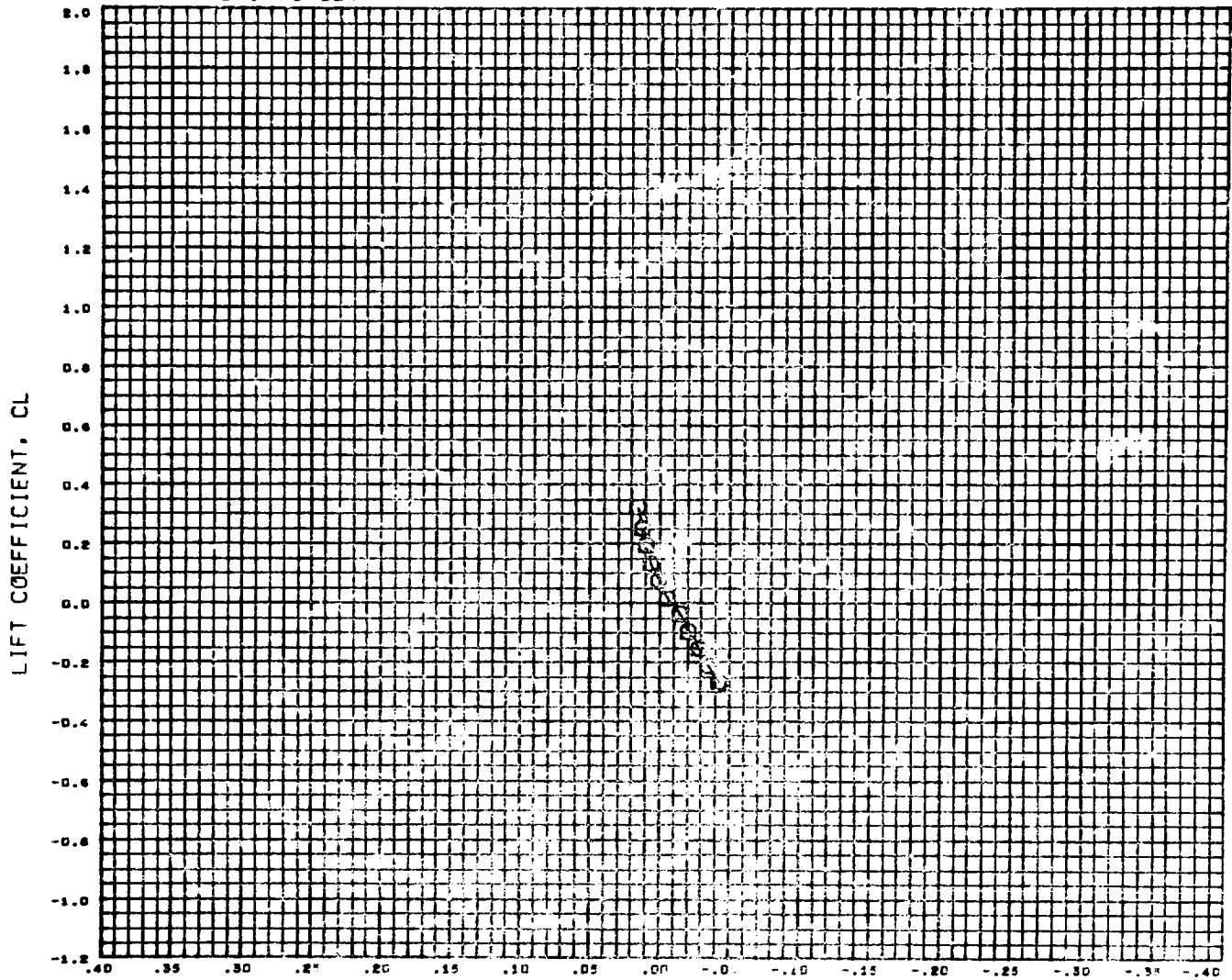
B2W6V2C12+TS7 (S3409Y)

24 AUG 71

PAGE

594

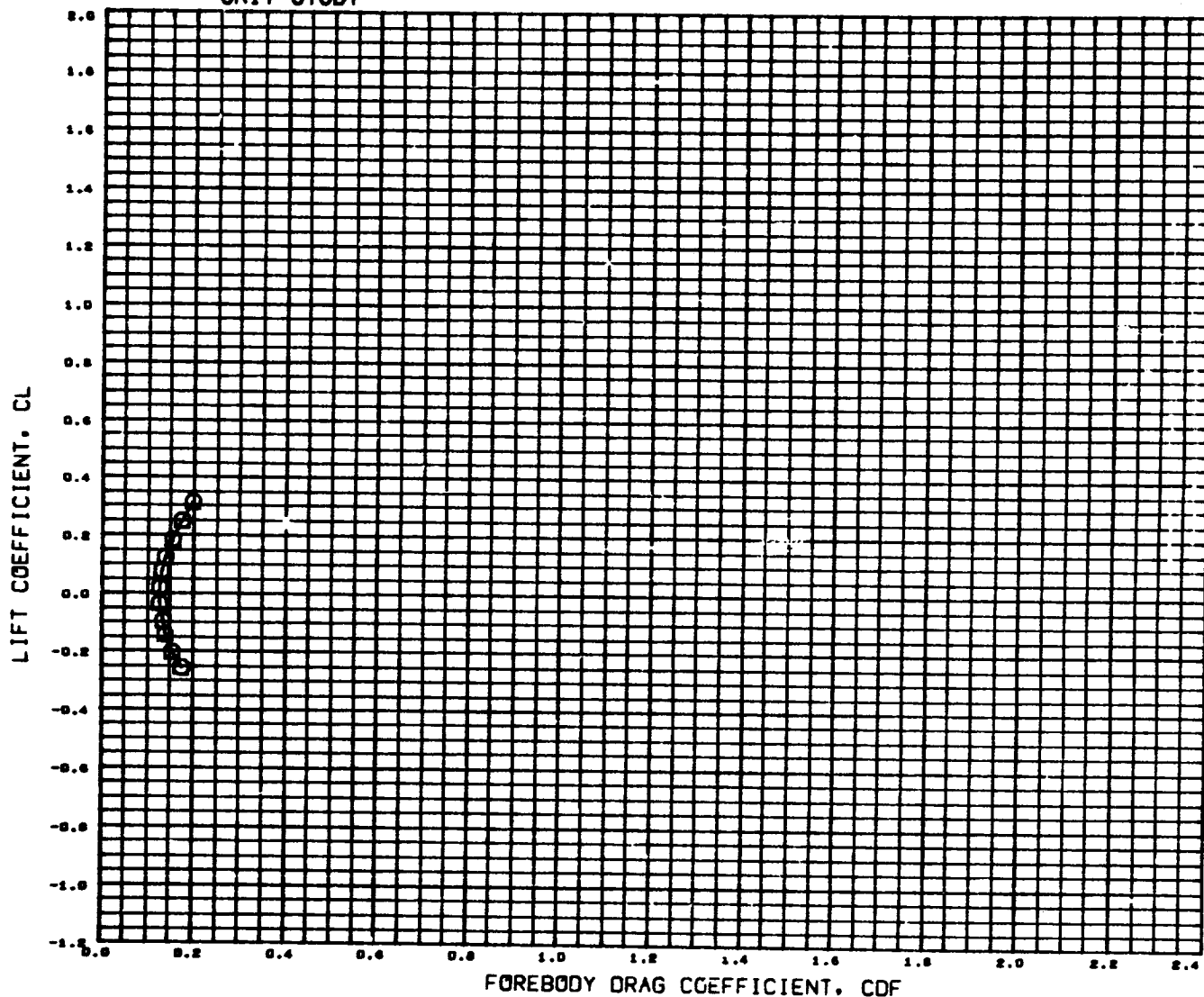
GRIT STUDY



PARAMETER VALUES				REFERENCE INFORMATION	
SYMBOL	MACH	SET	DS	STEP	IN.
Q	4.950	0.000	30.000	REF	4.3000
		ER EL	EXTRAP	REF	4.3000
		LRONCA	NARD	AMRF	2.4000
				YMRP	0.0000
				ZMRP	0.0000
				SCALE	0.0025

DATA HIST. CODE 1

GRIT STUDY



SYMBOL
□

MACH
4.959

BETA
ER EL
LRONCA

PARAMETRIC VALUES

0.000 DEL D 30.000
30.000 EVTRA1 30.000
0.000 HARD 0.000

REFERENCE INFORMATION

SSEP 4.6225 80.1N.
LREF 4.3000 IN.
BREF 4.3000 IN.
XMRP 2.4000 IN.
YMRP 0.0000 IN.
ZMRP 0.0000 IN.
SCALE 0.0025

DATA HIST. CODE T

M492-MSFC

AR11981-1

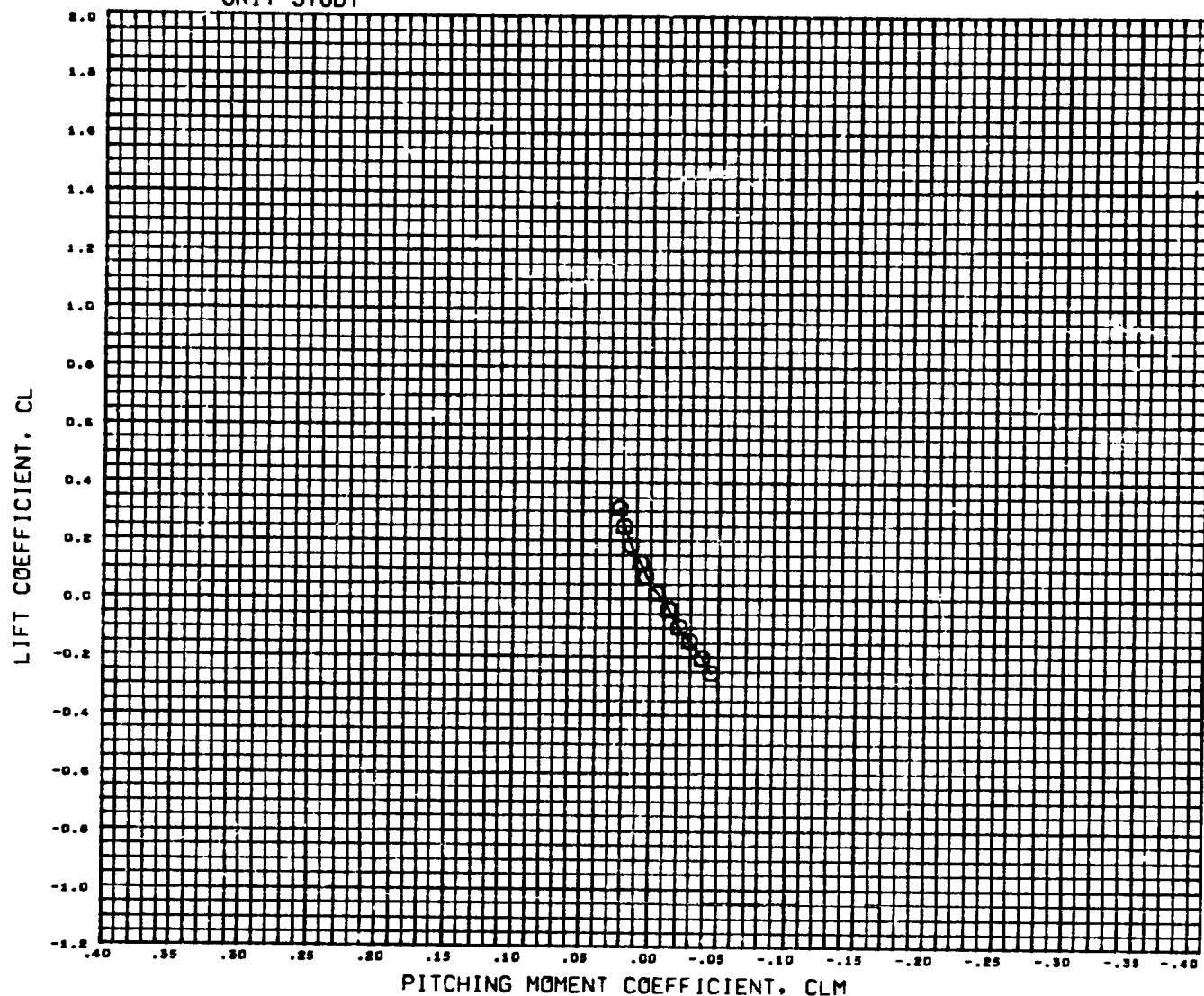
MODEL

B2W6V2C12

(S3409Z) 24 AUG 71

PAGE 596

GRIT STUDY



SYMBOL		MACH		PARAMETRIC VALUES				REFERENCE INFORMATION		
O		4.959		BETA	0.000	DEL D	30.000	BREF	4.6225	80. IN.
				ER EL	30.000	EVTRA1	30.000	LALF	4.3000	IN.
				LROMCA	0.000	MARD	0.000	BREF	4.3000	IN.
								XMRP	2.4000	IN.
								YMRP	0.0000	IN.
								ZMRP	0.0000	IN.
								SCALE	0.0025	IN.

DATA MIST. CODE T



U.S. DEPARTMENT OF COMMERCE
Technology Administration
National Technical Information Service
Springfield, VA 22161 (703) 487-4650
